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Inventors: Dan M. Mihai et al.
Application No.: 10/748,749
Confirmation No.: 2669
Title: Method and System for Medical Device Connectivity
Sheet 1 of 59 Sheets

FIG. 1

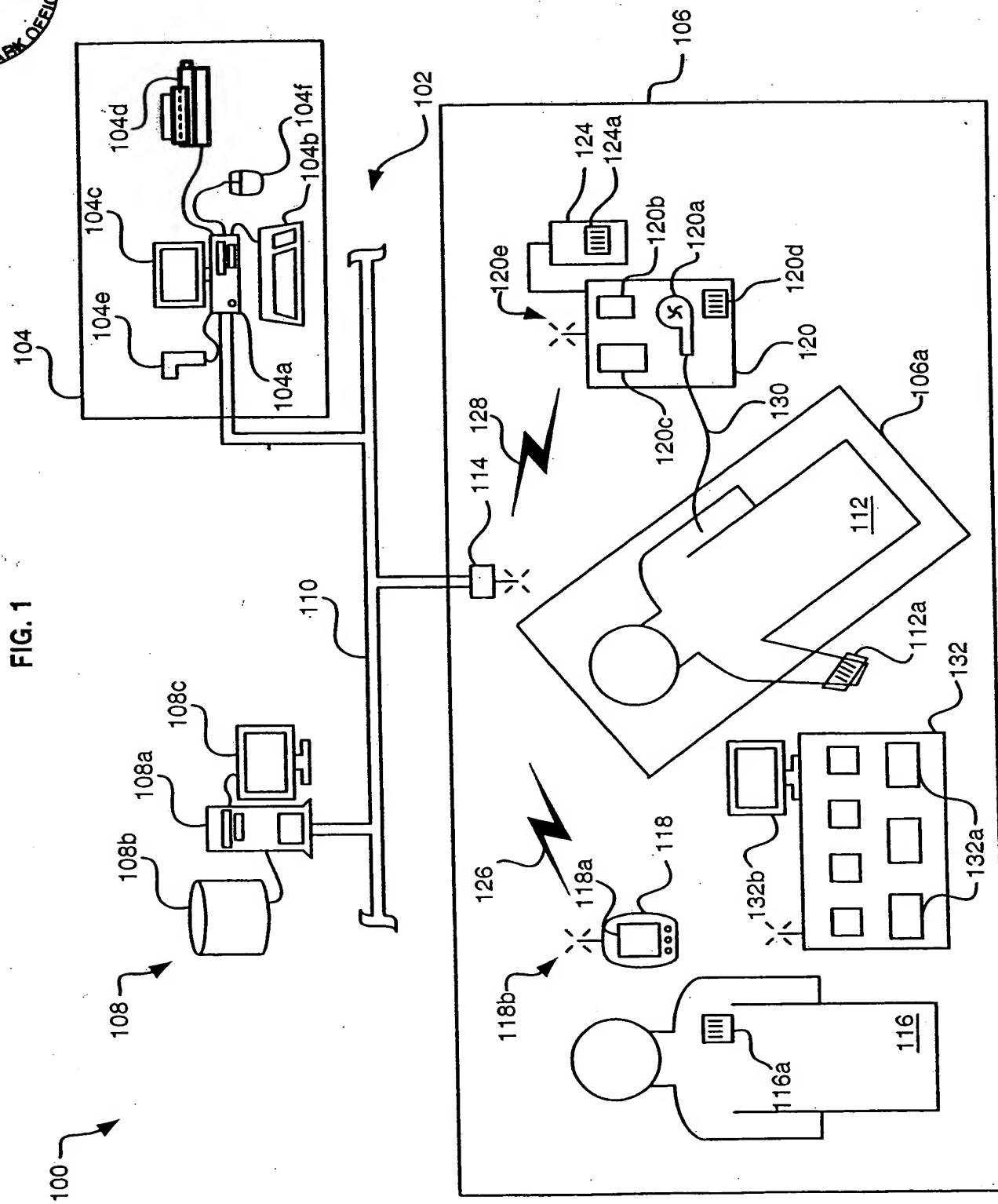
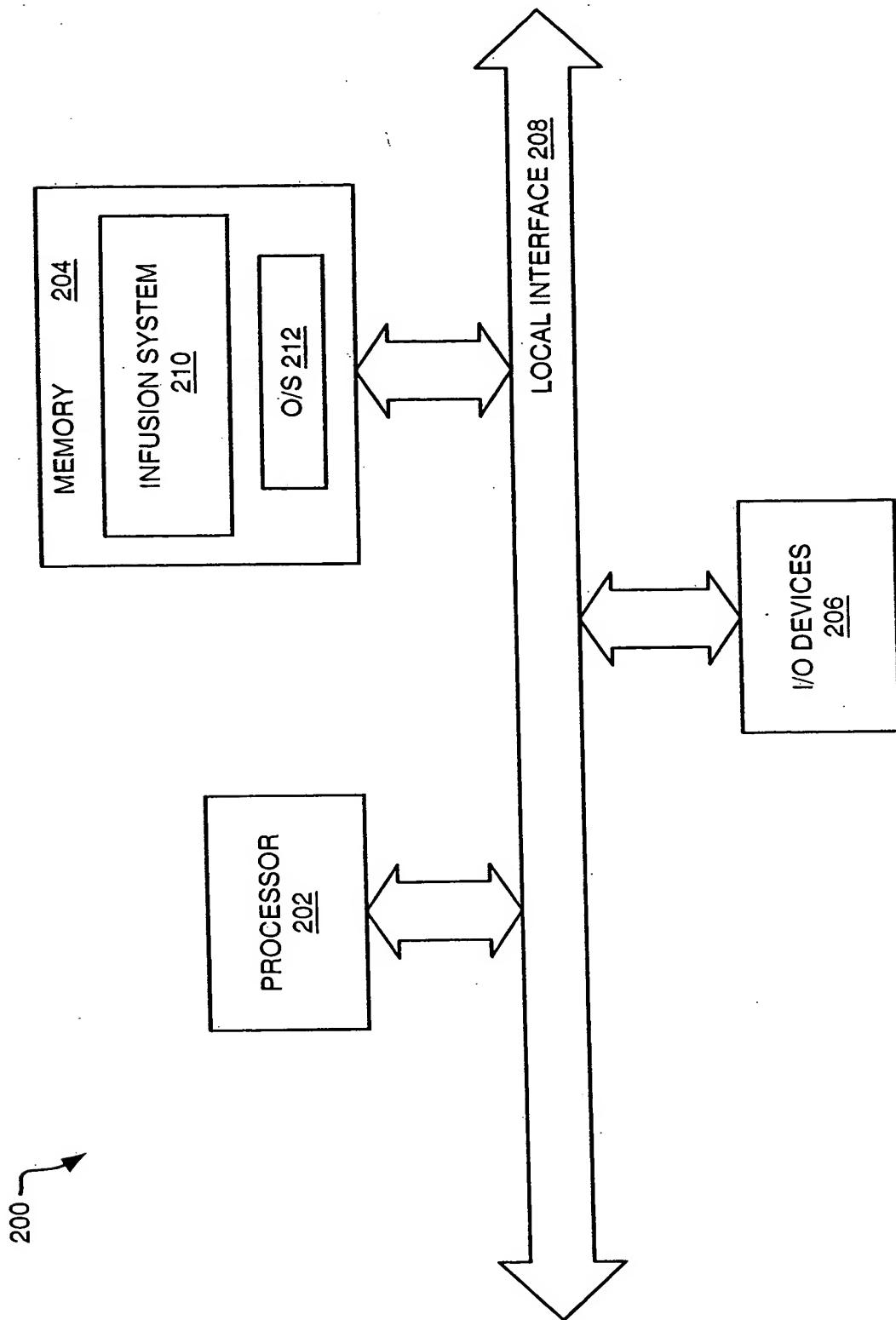


FIG. 2



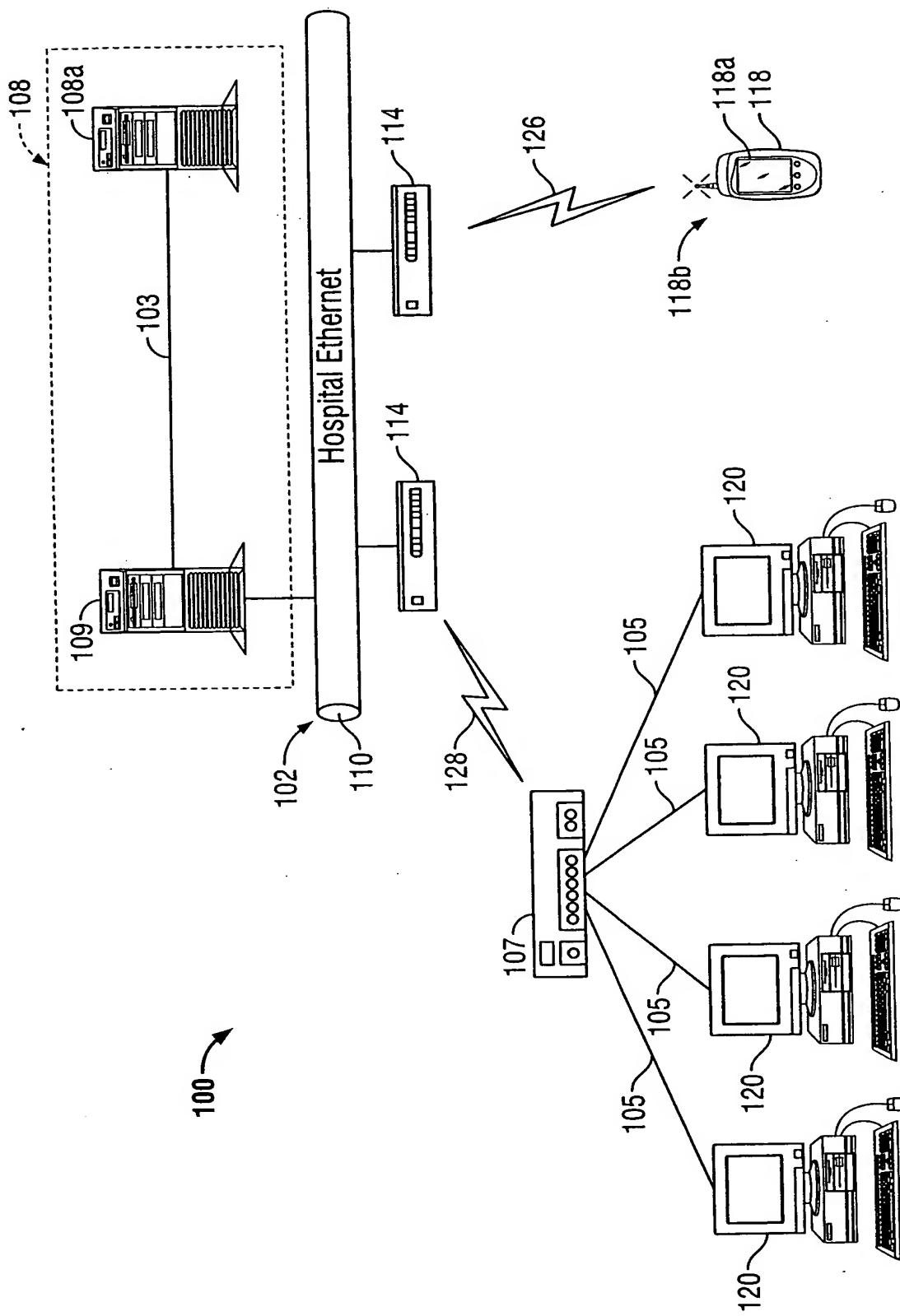


FIG. 3

FIG. 4

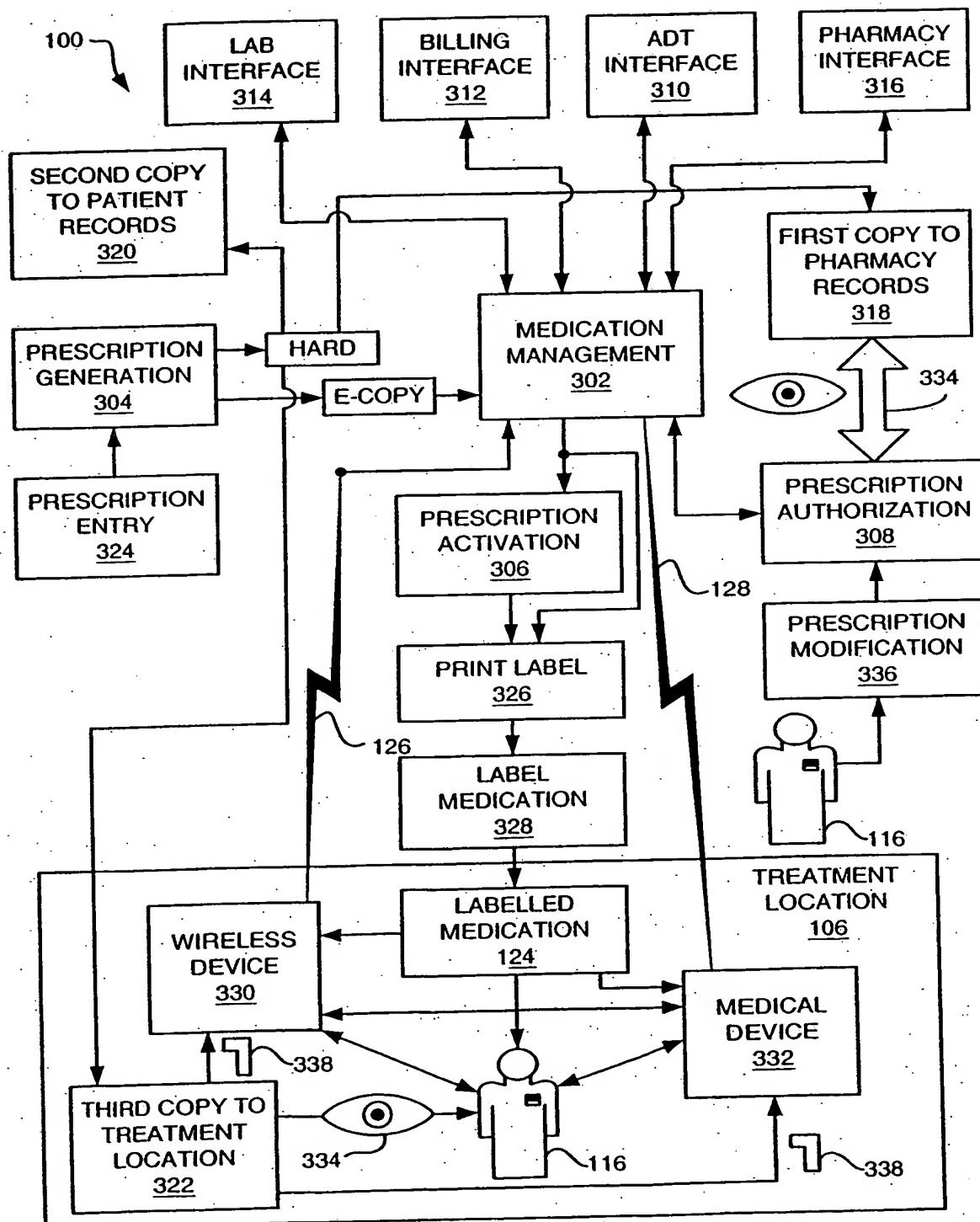


FIG. 5

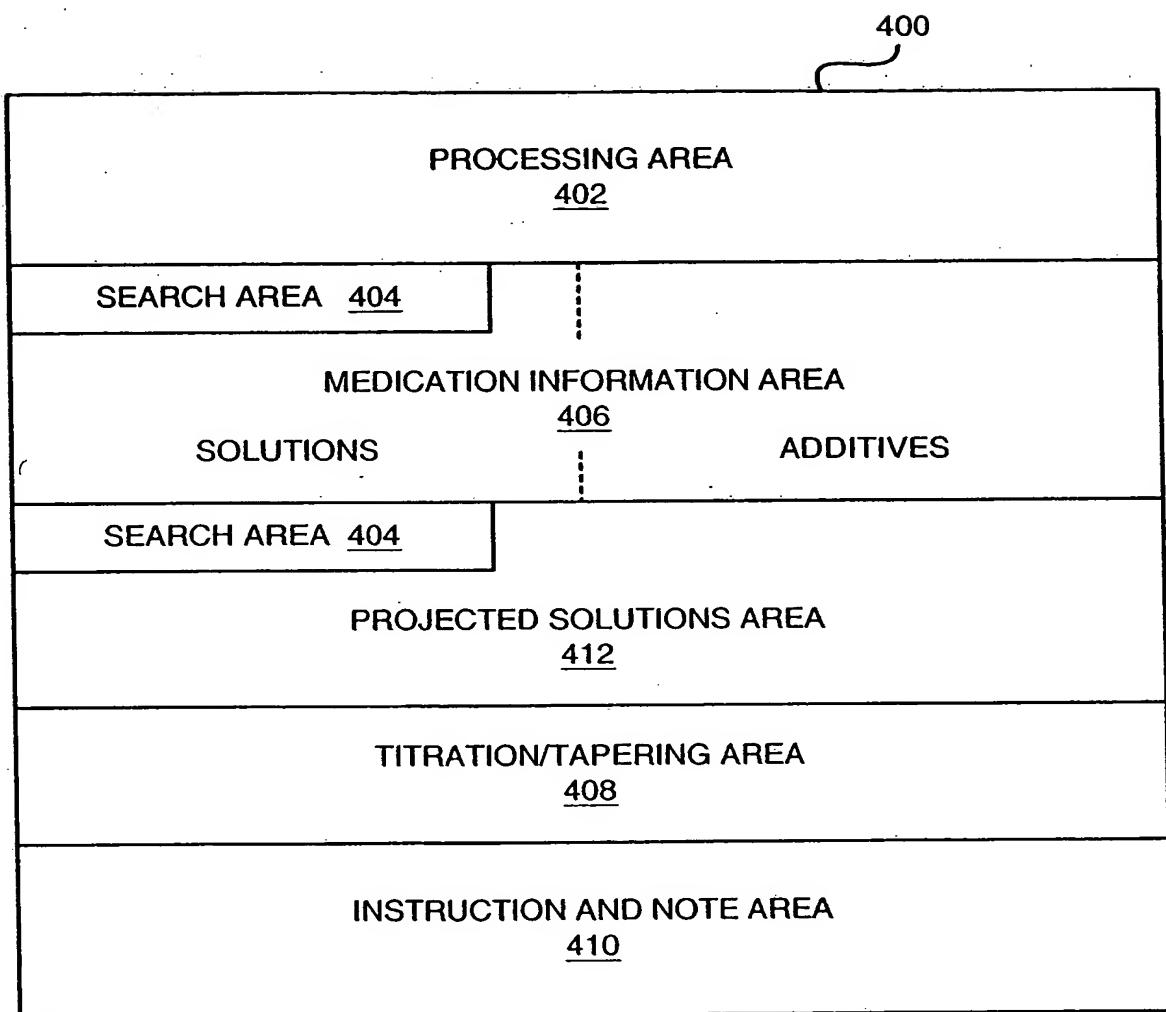


FIG. 6

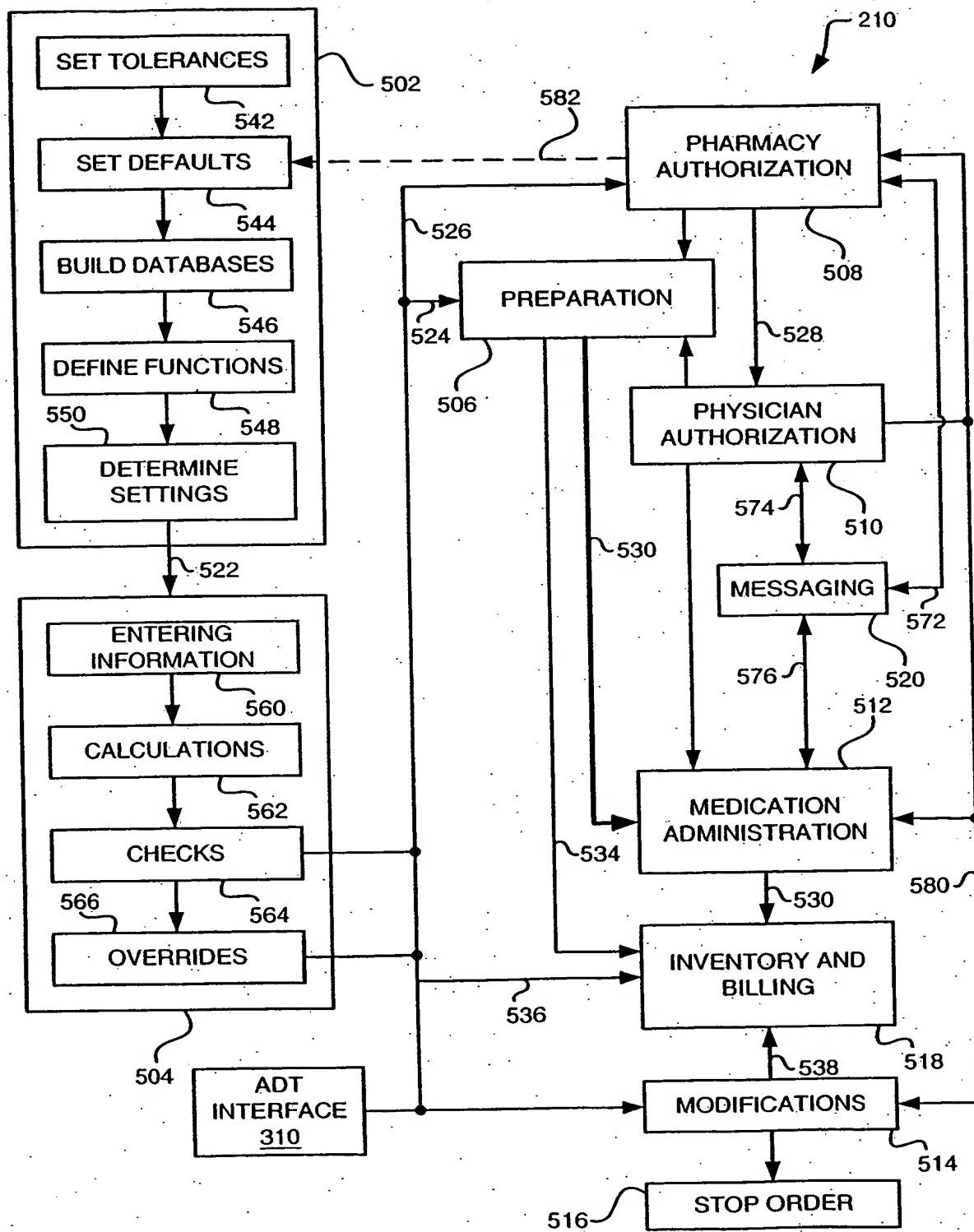


FIG. 7

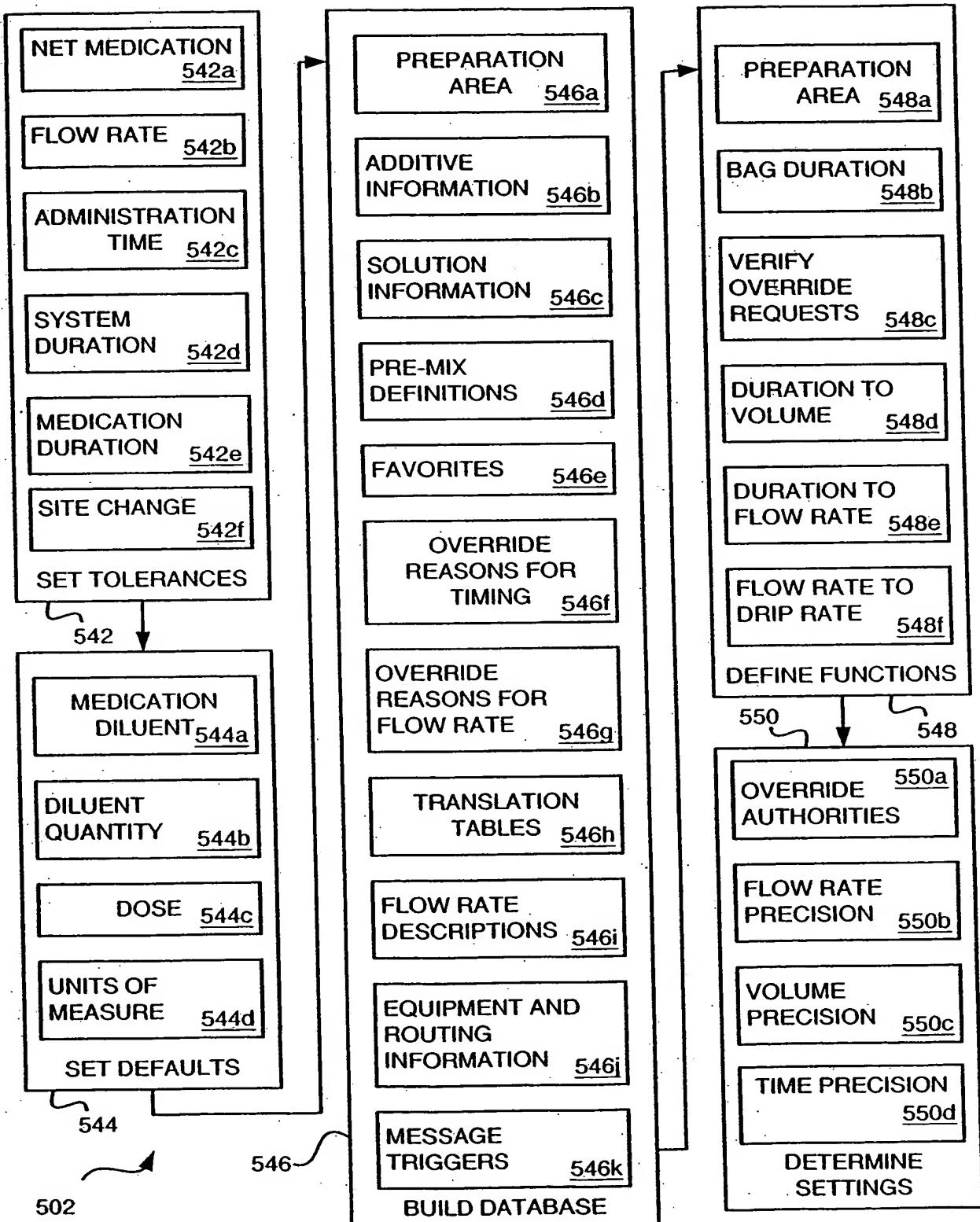


FIG. 8

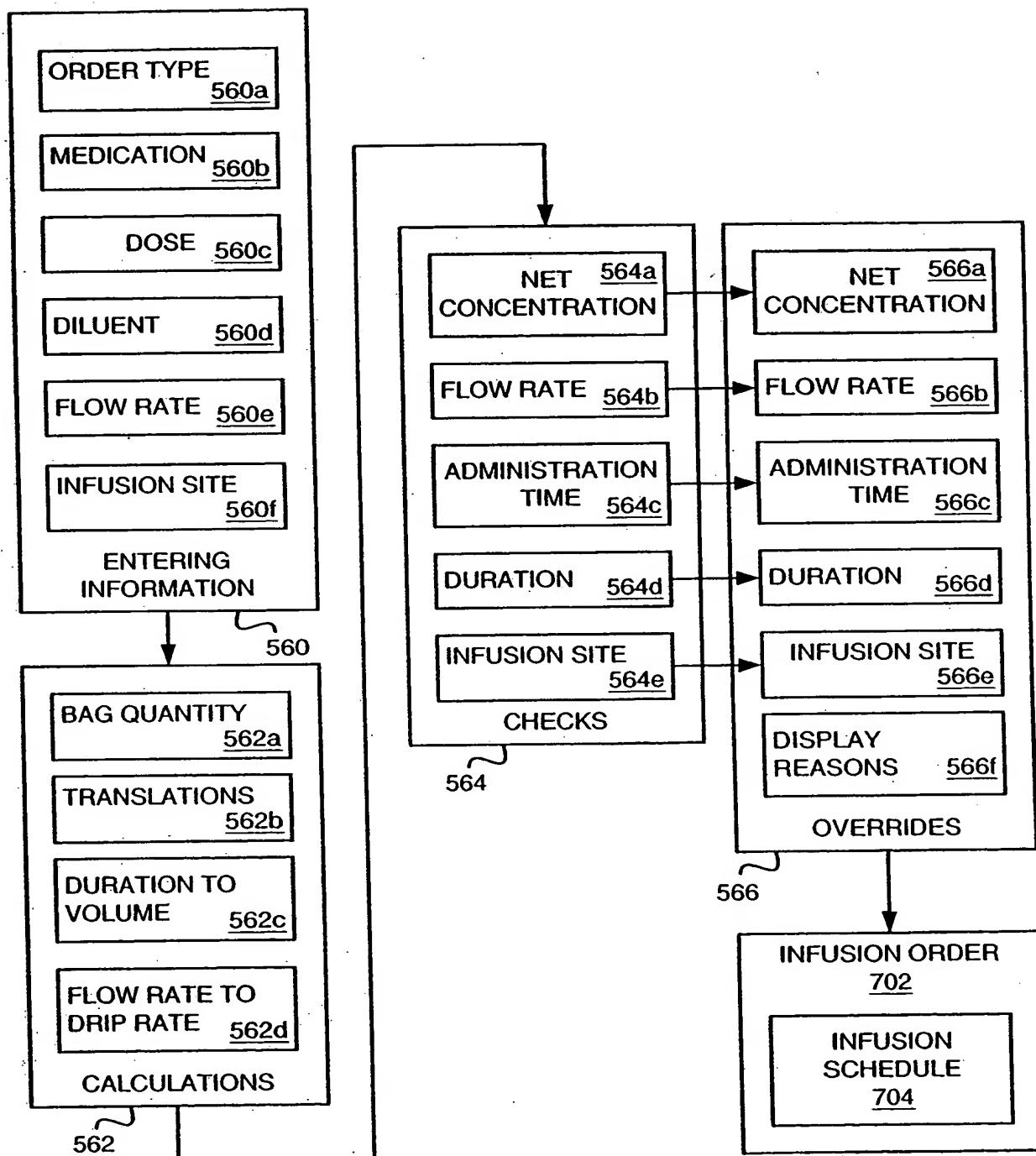


FIG. 9

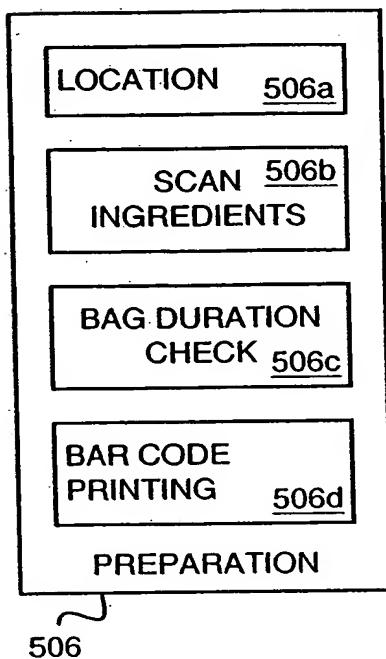
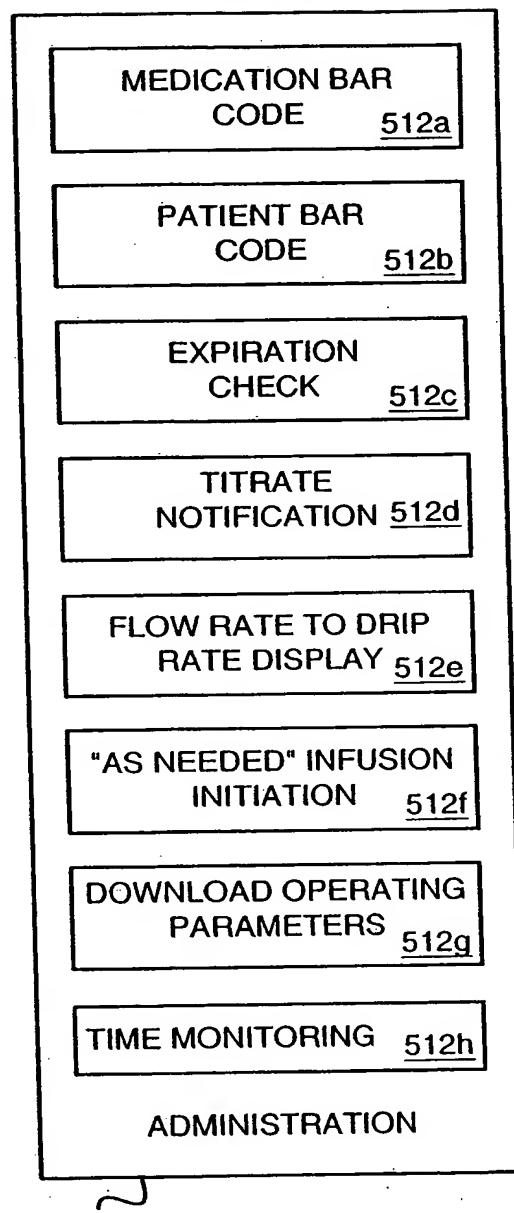


FIG. 10



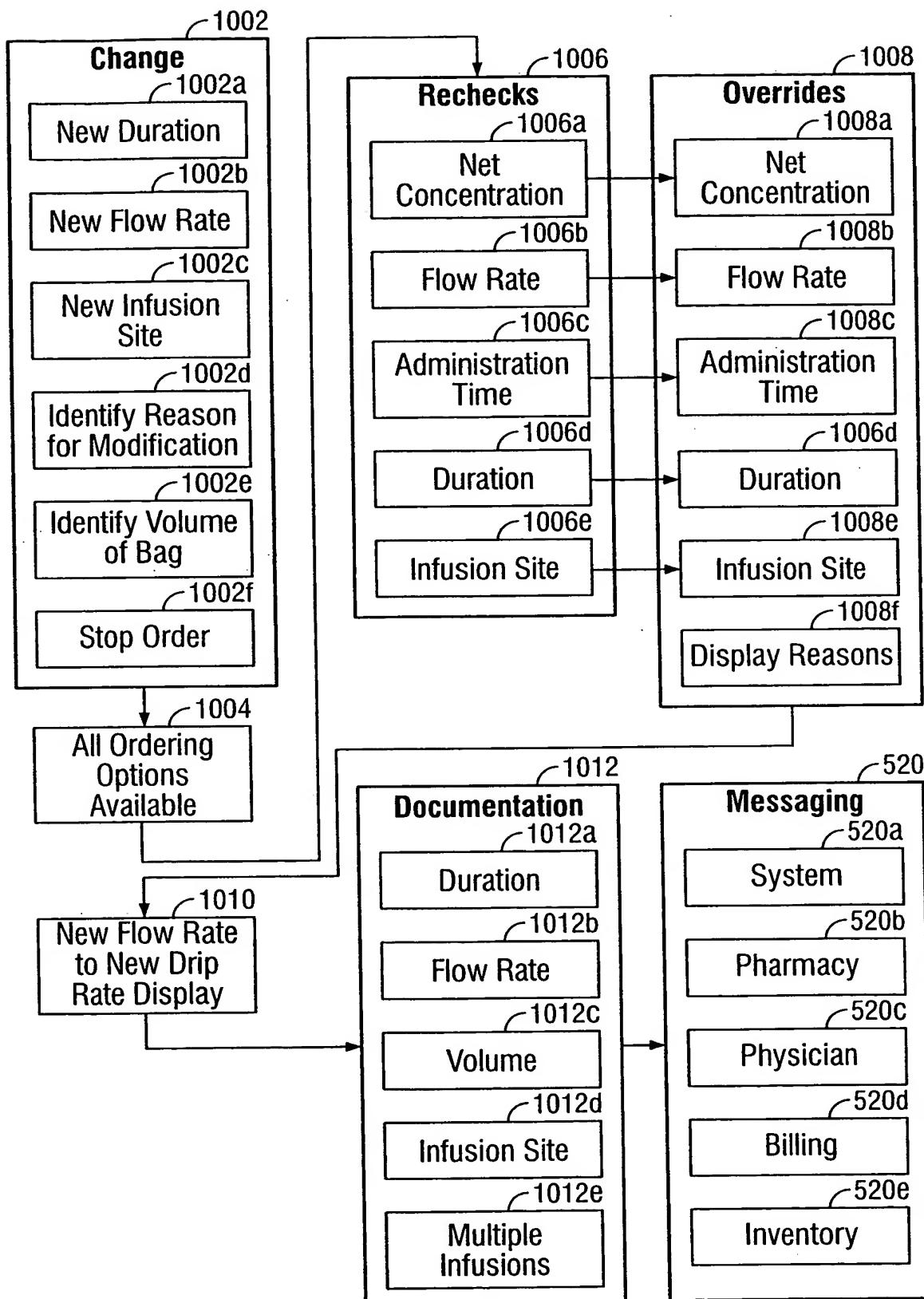


FIG. 11

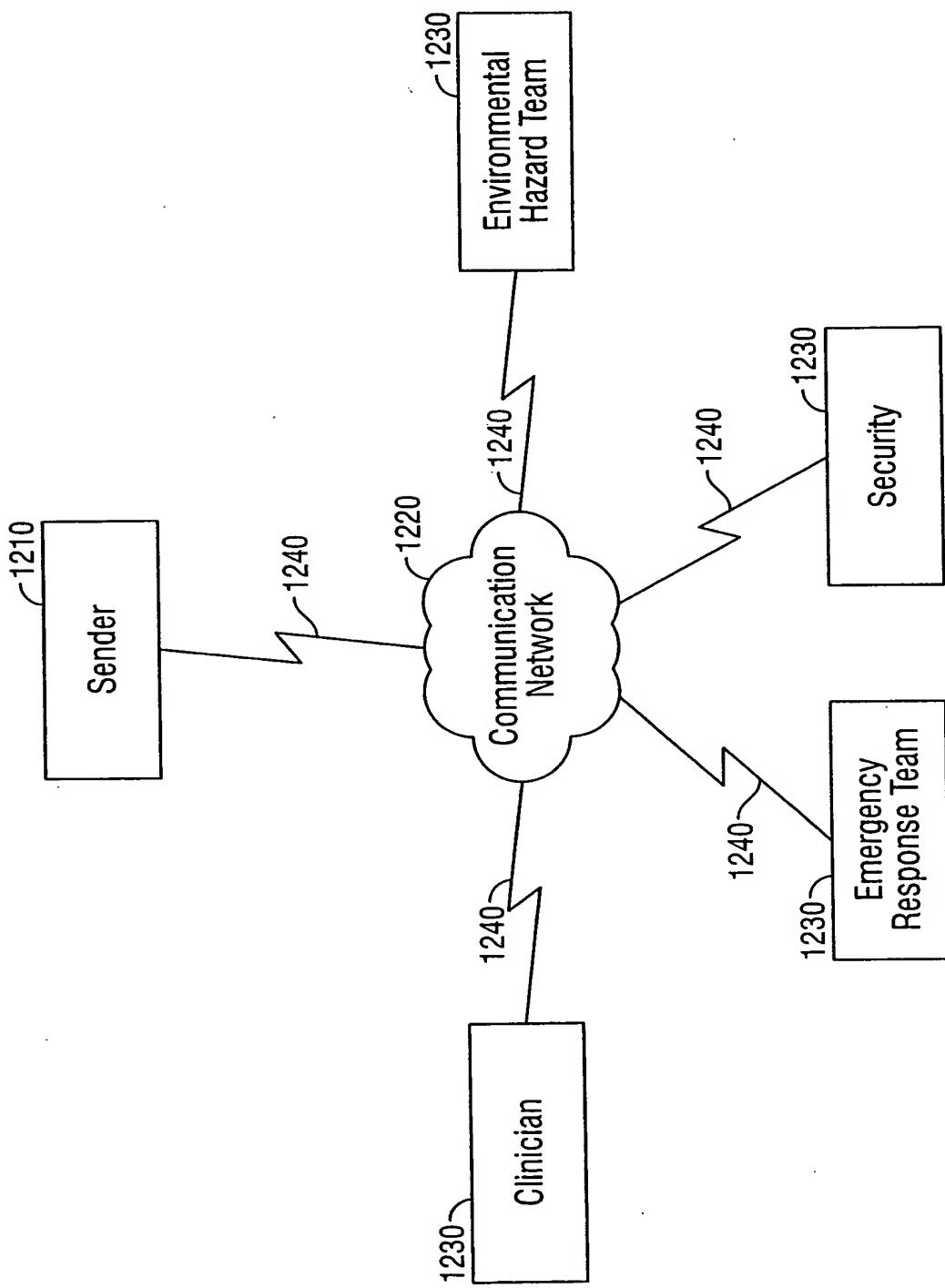


FIG. 12

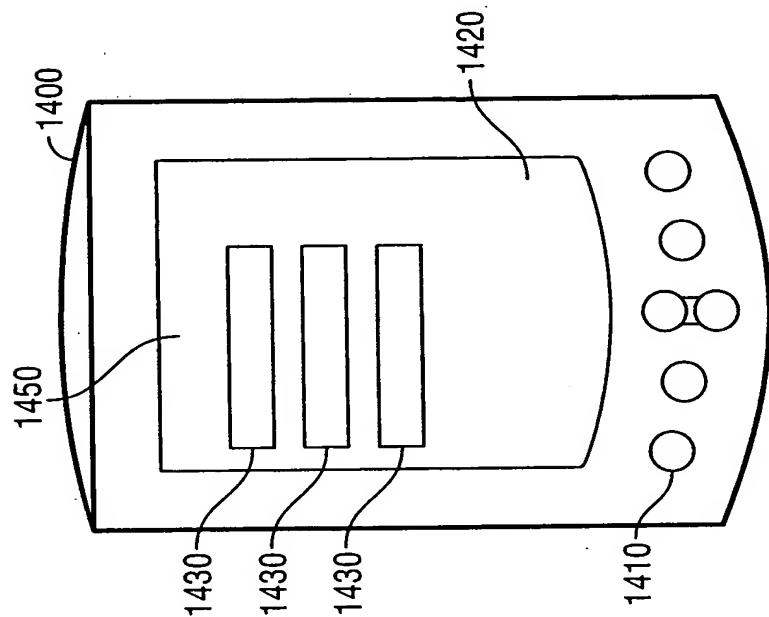


FIG. 14

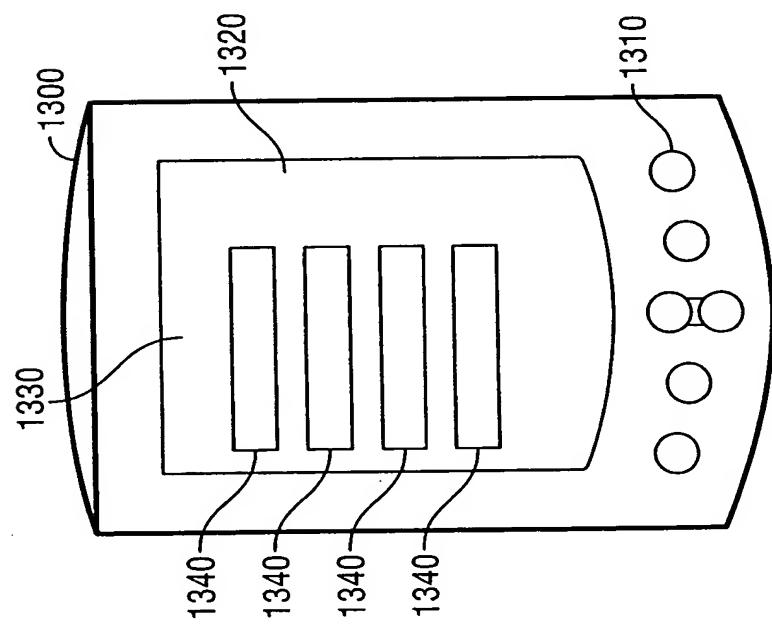
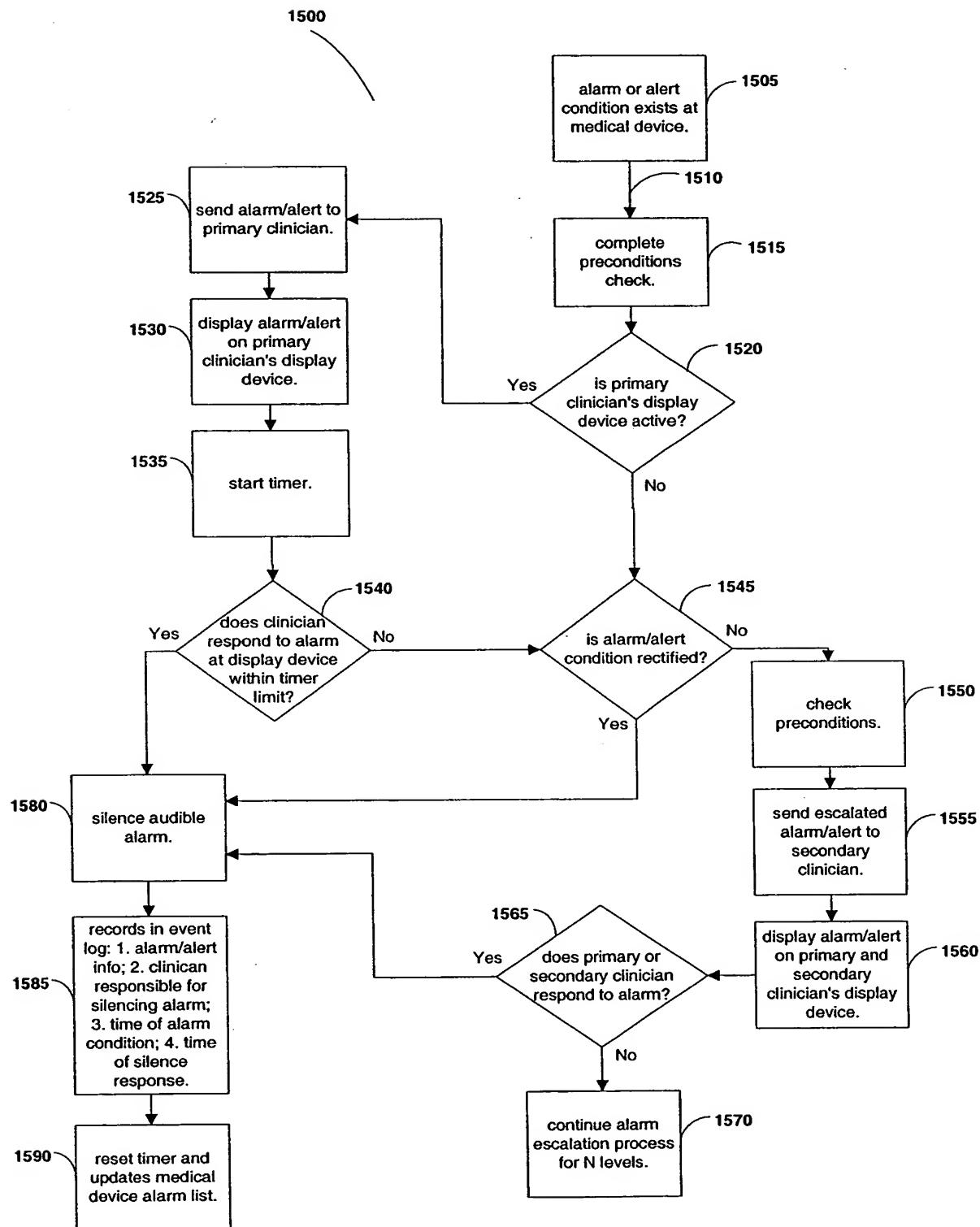
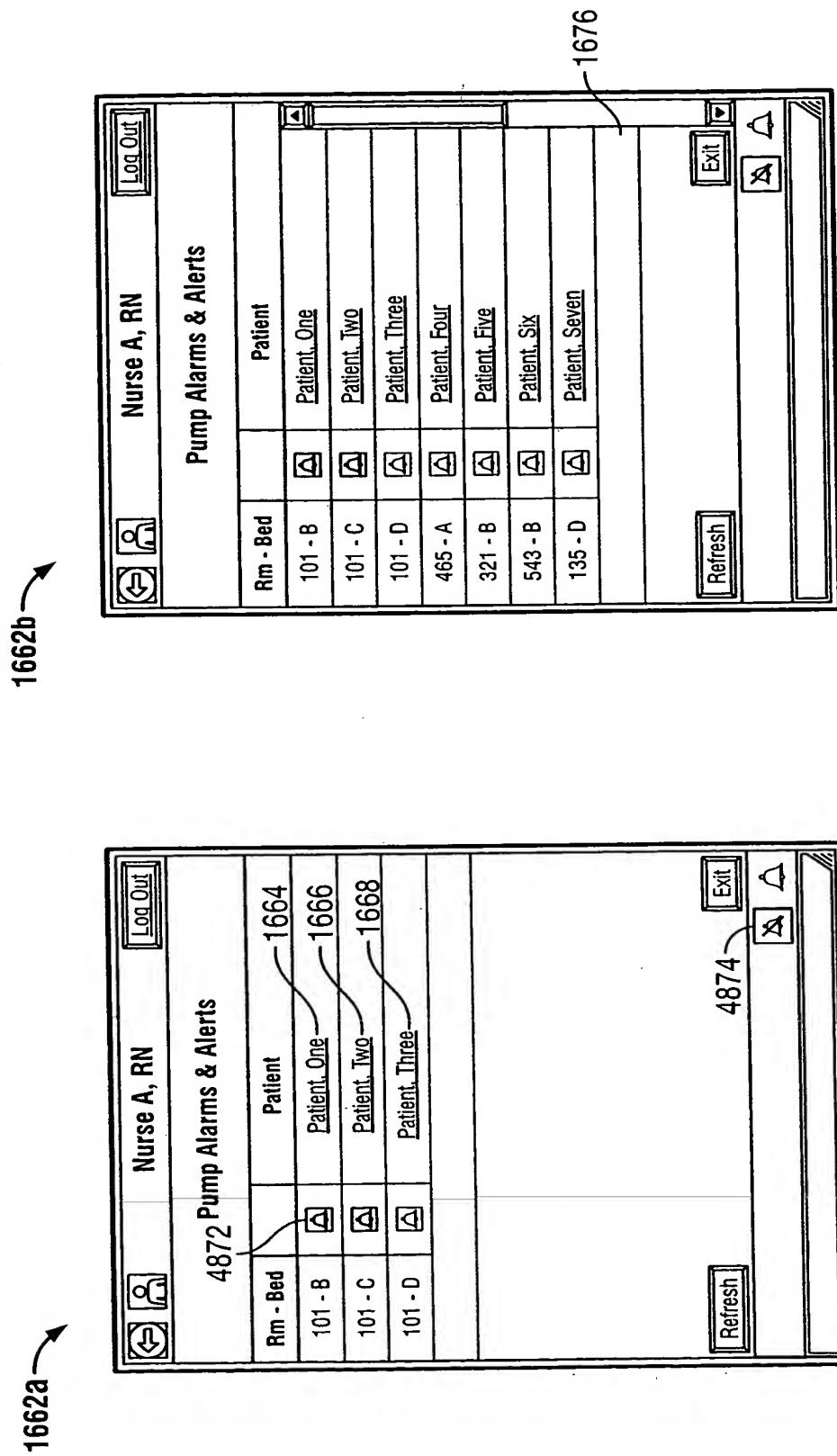


FIG. 13

FIG. 15





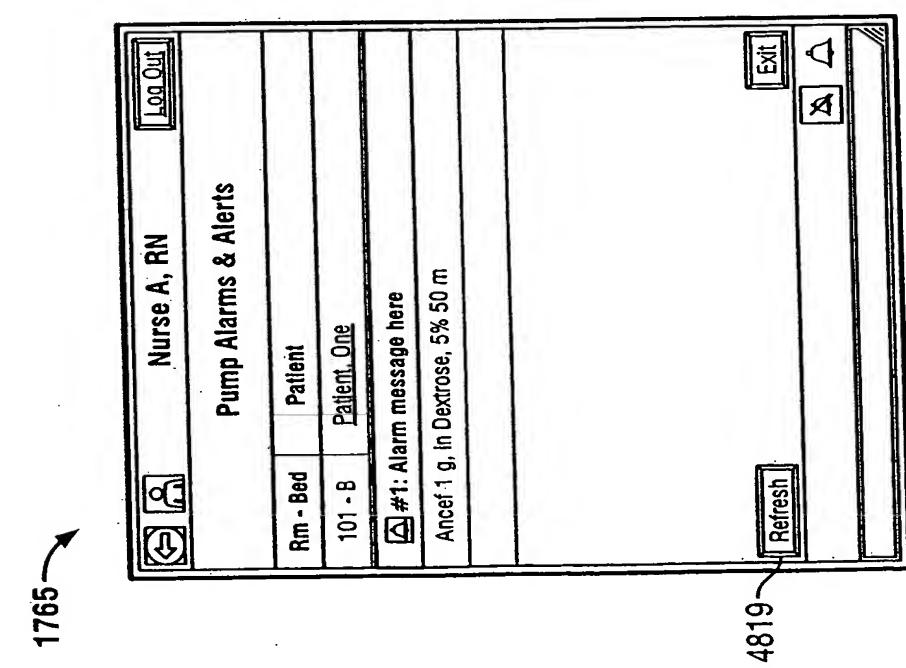


FIG. 17

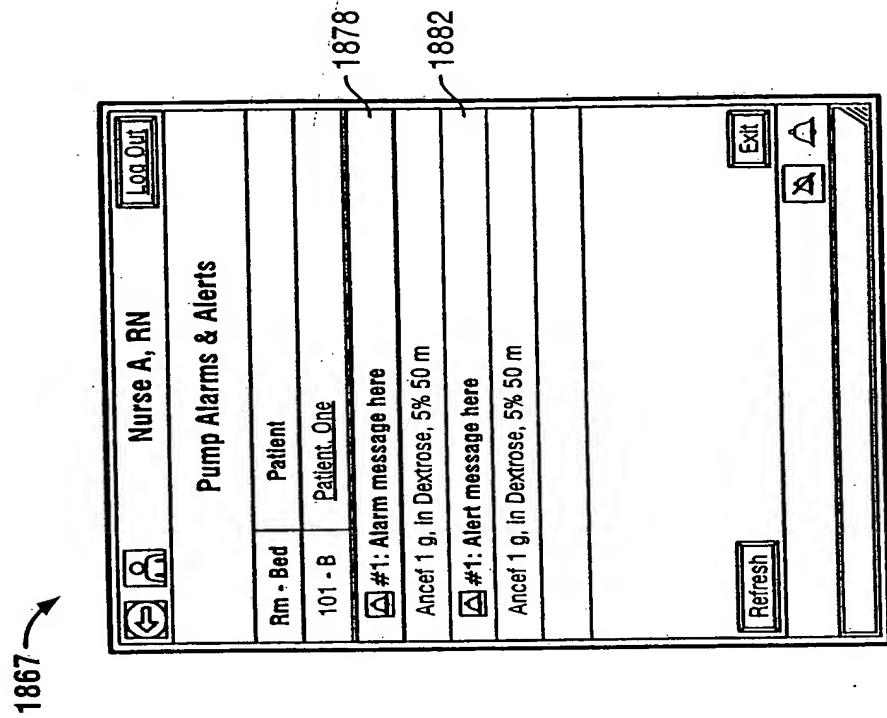


FIG. 18

2005 ↗

Patient Care System	General Hospital
User Name: Nurse A	<input type="text"/> *
Password: *****	<input type="text"/> *
Login failed. Check User Name or Password.	
<input type="button" value="Login"/>	

FIG. 20

1903 ↗

Patient Care System	General Hospital
User Name: Nurse A	<input type="text"/>
Password: *****	<input type="text"/>
<input type="button" value="Login"/>	

FIG. 19

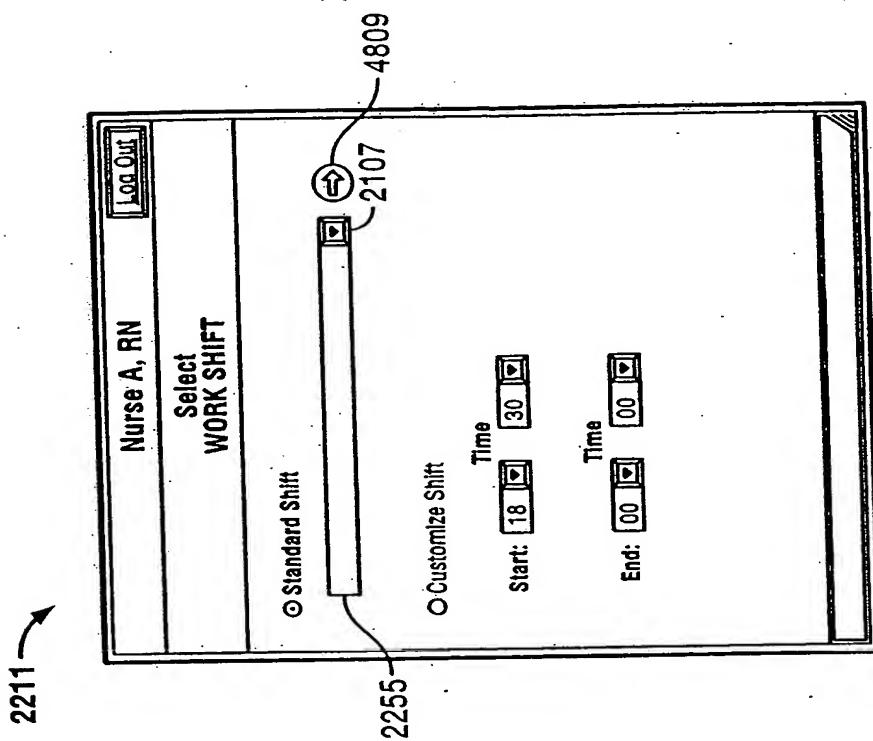


FIG. 22

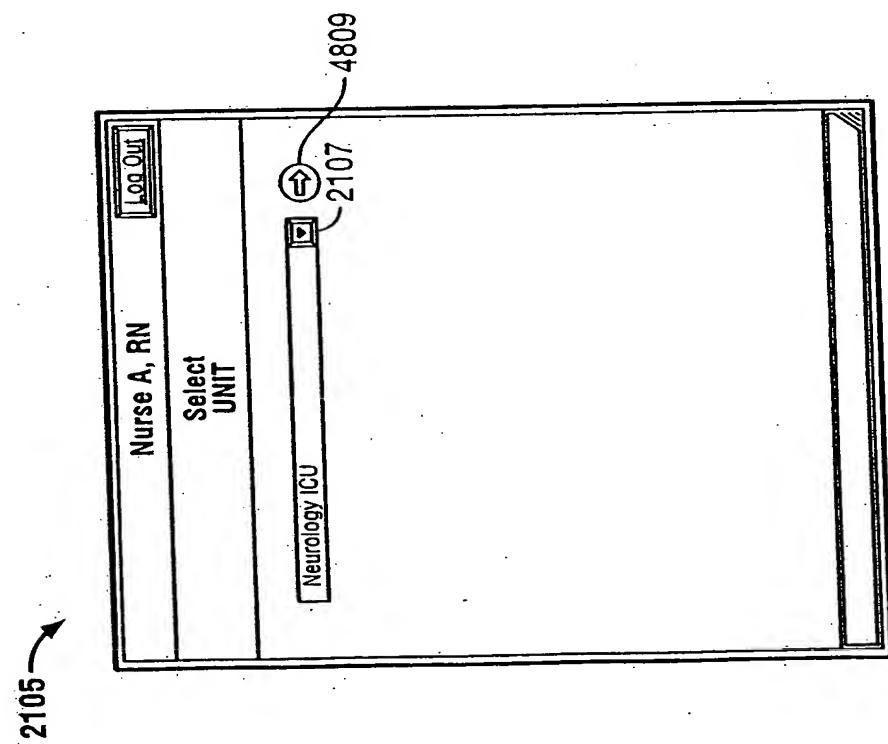


FIG. 21

2417 ↗

Nurse A, RN Log Out

Select PATIENTS

Rm - Bed	Patient
<input checked="" type="checkbox"/> 101 - B	Patient_One
<input type="checkbox"/> 101 - C	Patient_Two
<input checked="" type="checkbox"/> 101 - D	Patient_Three

Add patient for: (Up)

Entire shift (Down)

Find More Patients

FIG. 24

2313 ↗

Nurse A, RN Log Out

My Patients My Tasks (Up)

Scan Patient: (Down)

Rm - Bed	Patient
101 - B	<input type="checkbox"/> Patient_One
101 - C	<input checked="" type="checkbox"/> Patient_Two
101 - D	<input checked="" type="checkbox"/> Patient_Three

Add More Patients

2315 ↗

FIG. 23

2521a

	Ninety-Three, James RN	
Ninety Nine, Douglas, Mr. (MDLOC1) MDUnit: MDRoom1 - MDBed1 Dr.Ninety, Susan		
Mini-Chart: Allergies		
Allergies & H/W	Med Hx	
Lab Results		
Drug Allergy		
Acetaminophen		
General Allergy		
Date Observed	Height	Weight
8-22 14:16	183.00 cm	85.00 Kg
	72.05 in.	187.39 Lbs.

FIG. 25A

2521

	Nurse A, RN	
Patient, One - 101-B		
Mini-Chart: Allergies(NKA)		
Administer Meds/Infusions		
STOP Infusion		
RESUME Infusion		
Titrate Infusion		
Flow Rate History		
Pump Status		
Remove Patient from Shift		

FIG. 25

2521c

Ninety-Three, James RN		Log Out										
Ninety-Nine, Douglas, Mr. (MDLOC1) MDUnit: MDRoom1 - MDBed1 Dr.Ninety, Susan Mini-Chart Allergies Allergies & Ht/Wt Med Hx Lab Results												
<table border="1"> <thead> <tr> <th>Lab Test</th> <th>Result</th> <th>Range</th> <th>H/I</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>POTASSIUM</td> <td>3.1</td> <td>3.6-5 mmol/L</td> <td>Normal</td> <td>5/16/2003 9:00:00 AM</td> </tr> </tbody> </table>			Lab Test	Result	Range	H/I	Date	POTASSIUM	3.1	3.6-5 mmol/L	Normal	5/16/2003 9:00:00 AM
Lab Test	Result	Range	H/I	Date								
POTASSIUM	3.1	3.6-5 mmol/L	Normal	5/16/2003 9:00:00 AM								
<input type="button" value="Back"/>												

FIG. 25C

2521b

Ninety-Three, James RN		Log Out
Ninety-Nine, Douglas, Mr. (MDLOC1) MDUnit: MDRoom1 - MDBed1 Dr.Ninety, Susan Mini-Chart Allergies (NKA) Allergies & Ht/Wt Med Hx Lab Results		
All <input type="radio"/> Scheduled <input type="radio"/> PRN <input type="radio"/> O Look Back Period: 24 <input type="checkbox"/> hours		
Order Acetaminophen Cap 500 MG 500 MG = 1 CAP Oral TID Admin Date: 6-3 12:33 Patient Refused <input type="button" value="More..."/>		
<input type="button" value="Back"/>		

FIG. 25B

2627 ↗

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nurse A, RN	Log Out
Patient, One - 101-B			
Mini-Chart: Allergies (NKA)			
MA-Continuous Infusion Dextrose 5% W/Sodium Chloride 0.45% 200 ML Route : Intravenous Flow Rate : 50 ML/H Estimated Admin. Period : 4 Hours			
2629 2631 2633			
Warning : Wear Gloves ① Show Edubyte info here			
RX not previously administered Start Time : 6-2 14:54 End Time: 7-7 14:54			

FIG. 26A

2623 ↗

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nurse A, RN	Log Out
Patient, One - 101-B			
Mini-Chart: Allergies (NKA)			
<- 10:19 - 12:19 - ≥ <input checked="" type="checkbox"/> SCHED 13			
Time	Med	Last	
11:30	MORPHINE SULFATE	12:9	
	Continuous Infusion	2:00	
	<input checked="" type="checkbox"/>	2625	
13:30	Continuous Infusion (De)		
<input type="checkbox"/>	NR		
15:30	Continuous Infusion (De)		
<input type="checkbox"/>	NR		
17:30	Continuous Infusion (De)		
<input type="checkbox"/>	NR		

FIG. 26

2727b

	Ninety-Three, James RN	Log Out
WORKFLOW INFUSION: STOP		
Ninety-Six, Samuel, Mr. MDRoom1. MDBed1		
Mini-Chart: Allergies		
Continuous Infusion Dextrose Inj 20% 500 ML Route: Intravenous Flow Rate: 125 ML/H Estimated Administration Period: 4 Hours		
Please select a reason for Stop Infusion		
<input type="checkbox"/> Discontinue order in system		
Stop Time [M/D/Y H:H:MM]		
06/18/2003 <input checked="" type="checkbox"/> 15 <input type="checkbox"/> 23 <input type="checkbox"/>		
Cancel		
Back to Patient list		

FIG. 27B

2727a

	Ninety-Three, James RN	Log Out
WORKFLOW INFUSION: STOP		
Ninety-Six, Samuel, Mr. MDRoom1. MDBed1		
Mini-Chart: Allergies		
Scan Item: <input type="text"/>		
Continuous Infusion Dextrose Inj 20% 500 ML Route: Intravenous Flow Rate: 125 ML/H Estimated Administration Period: 4 Hours		
Order has been DC'd		
Back to Patient list		

FIG. 27A

2727d ↗

	Ninety-Three, James RN	
WORKFLOW INFUSION: RESUME		
NinetyFour-PointFive, Fred, Mr.		
MDRoom1 - MDBed1		
Min-Chart: Allergies (Not Specified)		
Continuous Infusion		
Dextrose Inj 20%		
500 ML		
Route: Intravenous Flow Rate:		
125 ML/H		
Estimated Administration Period:		
4 Hours		
Site re-established <input type="checkbox"/>		
Stopped w/o Order		
Please select a reason for Resume		
Infusion		
Scan Item: <input type="text"/>		
Continuous Infusion		
Dextrose Inj 20%		
500 ML		
Route: Intravenous Flow Rate: 125		
ML/H		
Estimated Administration Period: 4		
Hours		
Stopped w/o Order		
<input type="button" value="Cancel"/>		
<input type="button" value="Back to Patient list"/>		

4809 ↗

FIG. 27D

2727C ↗

	Ninety-Three, James RN	
WORKFLOW INFUSION: RESUME		
NinetyFour-PointFive, Fred, Mr.		
MDRoom1 - MDBed1		
Min-Chart: Allergies (Not Specified)		
Continuous Infusion		
Dextrose Inj 20%		
500 ML		
Route: Intravenous Flow Rate: 125		
ML/H		
Estimated Administration Period: 4		
Hours		
Stopped w/o Order		
<input type="button" value="Back to Patient list"/>		

FIG. 27C

2941 ↗

Nurse A, RN	
<input type="button" value="Log Out"/>	<input type="button" value="Log Out"/>
Patient, One - 101-B	
Mini-Chart: Allergies (NKA)	
<input checked="" type="checkbox"/> Missed Medication Please select a reason for LATE: <input type="checkbox"/> Adjust schedule for : MORPHINE SULFATE Continuous Infusion 60 MG = 30 ML Route: Injection Flow Rate: 30 ML/H Estimated Admin. Period: 1 Hour	
2943 ↗	
4837 ↗	
2945 ↗	

FIG. 29

2835 ↗

Nurse A, RN		
<input type="button" value="Log Out"/>	<input type="button" value="Log Out"/>	
Patient, One - 101-B		
Mini-Chart: Allergies (NKA)		
<- 10:19 - 12:19 ->		
<input checked="" type="checkbox"/> SCHED 13		
Time	Med	Last
13:30	<input checked="" type="checkbox"/> MORPHINE SULFATE	12:9
	Continuous Infusion	2:00
	<input checked="" type="checkbox"/>	2839
13:30	<input type="checkbox"/> S	Continuous Infusion De
	<input type="checkbox"/> NR	
15:30	<input type="checkbox"/> S	Continuous Infusion De
	<input type="checkbox"/> NR	
17:30	<input type="checkbox"/> S	Continuous Infusion De
	<input type="checkbox"/> NR	

4837 ↗

FIG. 28

3135

Nurse A, RN

Patient, One - 101-B

Mini-Chart: Allergies (NKA)

< 10:19 - 12:19 ≥

SCHED 13

	Time	Med	Last
<input type="checkbox"/>	13:30	MORPHINE SULFATE Continuous Infusion 2:00	12:9
<input type="checkbox"/>	13:30	NR	△
<input type="checkbox"/>	13:30	NR	2839
<input type="checkbox"/>	15:30	NR	△
<input type="checkbox"/>	17:30	NR	△

4857

3045

Please select a reason for LATE

Patient unavailable at sched. time

Not Required

Cycle Count
Insufficient Stock
Re-open drawer
Maintain Admin Test
Already have item
Item Unavailable
Refused

FIG. 31

FIG. 30

3351 ↗

Nurse A, RN

Log Out

Patient, One - 101-B

Mini-Chart: Allergies (NKA)

Scan Depot: 

Search Items

Item	Depot/Unit	Qty
Morphine Sulfate Inj	In other	
2 MG/ML QA	units	
Morphine Sulfate Inj	In other	
2 MG/ML QA	units	

Skip Scan Depot

3353 ↗

3355 ↗

FIG. 33

3235 ↗

Nurse A, RN

Log Out

SCHED 13

Time	Med	Last
11:30	MORPHINE SULFATE Continuous Infusion	12/9 2:00
	△	3225
13:30	Continuous Infusion De	
	NR	
15:30	Continuous Infusion De	
	NR	
17:30	Continuous Infusion De	
	NR	

Get Items

3249 ↗

FIG. 32

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Depot:

Scan Item:

Scan

Log Out

Scan code is invalid.

Item	Depot/Unit	Qty
Morphine Sulfate Inj	In other units	
2 MG/ML QA		
Morphine Sulfate Inj	In other units	
2 MG/ML QA		

Skip Scan Depot

3569

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Item:

Scan

Log Out

MORPHINE SULFATE

Continuous infusion
 60 MG = 30 ML
 Route: Injection
 Flow Rate: 30 ML/H
 Estimated Admin. Period: 1 Hour

Quantity: ML(s)

Get: 30 ML

Warning: Wear Gloves

Show Edubyte Info here

3467

FIG. 35

FIG. 34

3771 ↗

3657 ↗

3771 (Top Screenshot):

Nurse C, RN

Patient, Three , Mr. 100-C

Mini-Chart : Allergies

Verify Route, Line & Site

Rx Sodium Chloride 0.9% 3778
 Continuous Infusion
 Rx Sodium Chloride 0.9%
 1000 mL

Route: Intravenous Flow Rate: 50 ML/H
 Estimated Administration Period: 20 Hours

Please hang the bag,
 program the pump
 and record the following information
 but DO NOT start the pump channel until instructed.

Route: 3773
 Line: 3775
 Site: 3777
 Compare Route

3657 (Bottom Screenshot):

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Patient: 3659

3661 ↗ If Cannot admin, select a reason:

Not Req Due to Monitoring Result
 Patient Unavailable
 Refused

Waste/Return 3663 ↗

FIG. 37

FIG. 36

<input type="checkbox"/>  <input type="checkbox"/> 		Log Out
Nurse C, RN		
Patient, Three , Mr. 100-C		
Mini-Chart : Allergies		
Scan Pump Channel		
Rx Sodium Chloride 0.9% Continuous infusion Rx Sodium Chloride 0.9% 1000 ML Route: Intravenous Flow Rate: 50 ML/H Estimated Administration Period: 20 Hours		
Scan Pump Channel ****		
4809 		

FIG. 38A

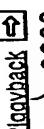
<input checked="" type="checkbox"/> 	Nurse C, RN
Patient, Three , Mr. 100-C	
Mini-Chart : Allergies	
Select Pump Channel Mode	
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% 1000 ML Route: Intravenous Flow Rate: 50 ML/H Estimated Administration Period: 20 Hours	
3882	
Select Pump Channel Mode:	
<input checked="" type="checkbox"/>	Playback 
3883	
3884	

FIG. 38

3987 ↘

		Nurse A, RN	Log Out						
Patient, One Rm - Bed 101-8 Dr. One (111)111-1111 ext. 1									
Pharm & Pump Comparison									
Anest 1 G, In Dextrose, 5% 50 mL run at 100 mL/hr									
<table border="1"> <tr> <td>Pharm Label</td> <td>=</td> <td>Pump Settings</td> </tr> <tr> <td>Rate</td> <td>100 mL/hr</td> <td>100 mL/hr</td> </tr> </table>				Pharm Label	=	Pump Settings	Rate	100 mL/hr	100 mL/hr
Pharm Label	=	Pump Settings							
Rate	100 mL/hr	100 mL/hr							
Comparison MATCHES. Press "Start" Key on pump.									
<input type="button" value="OK"/>									

FIG. 39A

3986 ↘

		Nurse C, RN	Log Out
Patient, Three, Mr. 1 West: 100-C MD1, Test			
Pharm & Pump Comparison			
Continuous Infusion Rx Sodium Chloride 0.9% 1000 mL Route: Intravenous Flow Rate-60 mL-H-Estimated Administration Period-24 Hours			
Program the Pump Channel and: > If this is a PRIMARY - Click COMPARE below Now and wait until instructed to start pump channel.			
> If this is a PIGGYBACK -- Press the "start" key on the pump Now, then Click COMPARE If Piggyback Infusion, ensure PRIMARY is placed LOWER THAN than PIGGYBACK and that PIGGYBACK roller clamp is OPEN.			
<input type="button" value="Compare"/>			
4817			

FIG. 39

4187 ↗

4087 ↗

4825 ↗

4817 ↗

FIG. 40

FIG. 41

4187 Screen (Top):

Nurse A, RN

Patient, One
Rm - Bed 101-B
Dr. One (111)111-1111 ext. 1

Pharm & Pump Comparison

Ancef 1 g. in Dextrose, 5% 50 mL
run at 100 mL/hr

	Pharm Label	Pump Settings
Rate	100 mL/hr	100 mL/hr
	50 mL/hr	7 mL/hr

4817 Screen (Bottom):

Nurse A, RN

Patient, One
Rm - Bed 101-B
Dr. One (111)111-1111 ext. 1

Pharm & Pump Comparison

Ancef 1 g. in Dextrose, 5% 50 mL
run at 100 mL/hr

	Pharm Label	Pump Settings
Rate	100 mL/hr	100 mL/hr
	50 mL/hr	7 mL/hr

Please Verify with PHYSICIAN Order.
 Then to accept the mismatch, press "Start" key on pump
 and then click "OK" below.
 You can also reprogram the pump and then click
 "Compare again."

4817

OK

4391

Nurse A, RN

Log Out

Patient, One
 Rm - Bed 101-B
 Dr. One (111)111-1111 ext. 1

Pump Status

4807

Δ Amecl 1 g, In Dextrose, 5% 50 mL
 run at 100 mL/hr

Rate	60 mL/h
Volume Infused	5 mL
Volume Remaining	45 mL
Time Remaining	45 min.

*NOTE: Pump Override Accepted

Exit

Refresh

FIG. 43

4287

Nurse A, RN

Log Out

Patient, One
 Rm - Bed 101-B
 Dr. One (111)111-1111 ext. 1

Pharm & Pump Comparison

4819

Amecl 1 g, In Dextrose, 5% 50 mL
 run at 100 mL/hr

Pharm Label	Pump ?	Settings
Rate	100 mL/hr	7 mL/hr

Cannot Compare. Press "Start" key on pump and click COMPARE, to retry comparison.

4817

COMPARE

FIG. 42

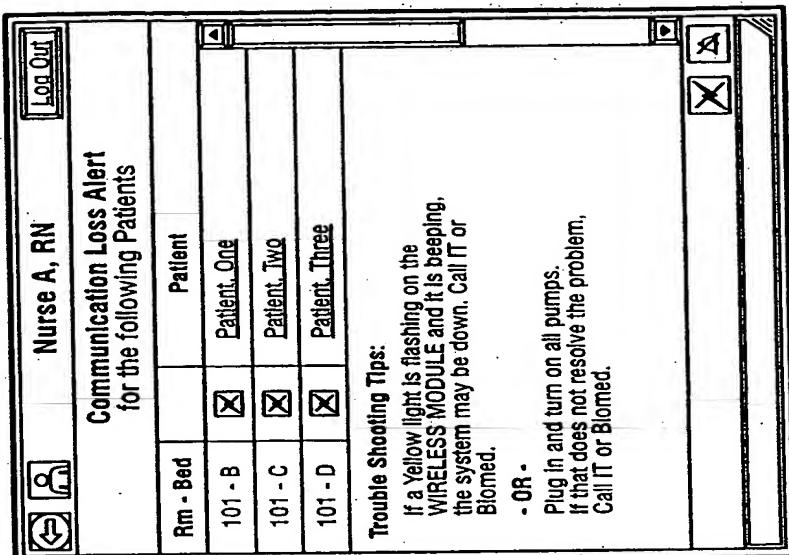


FIG. 45A

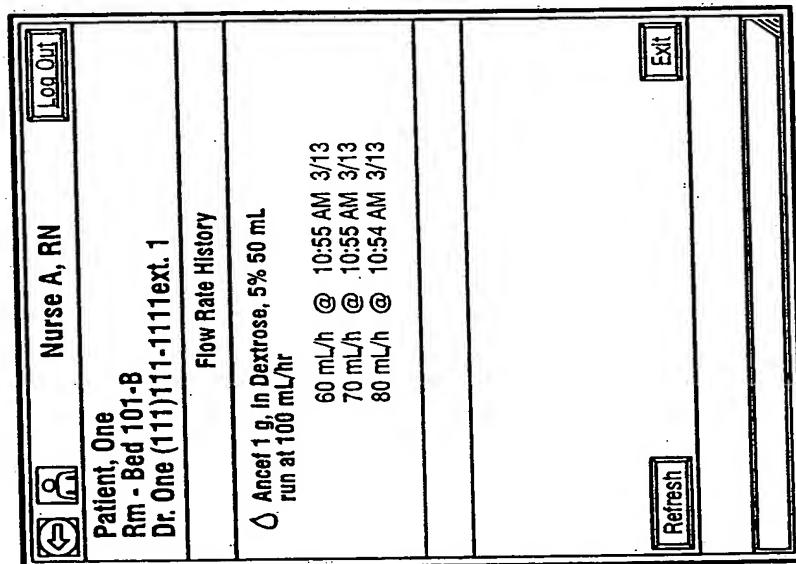


FIG. 44

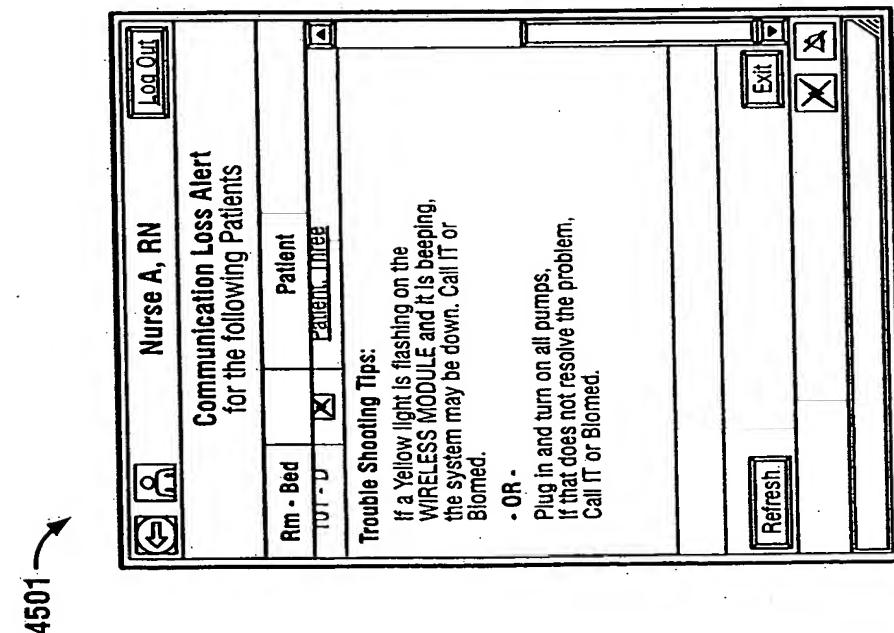
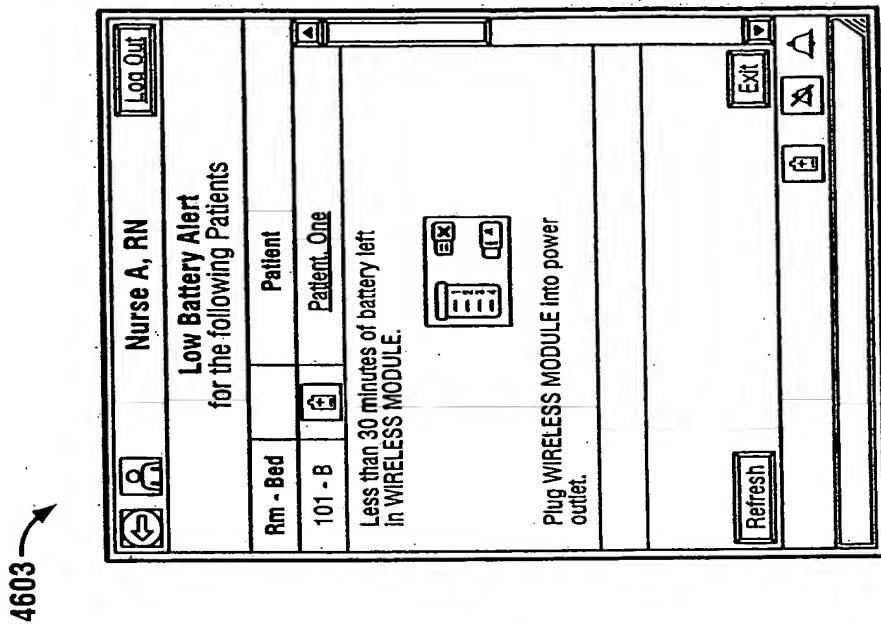


FIG. 46

FIG. 45B

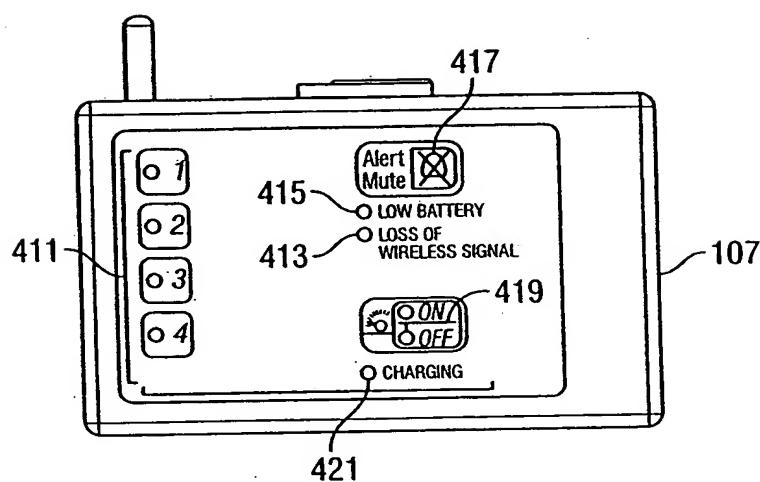


FIG. 47

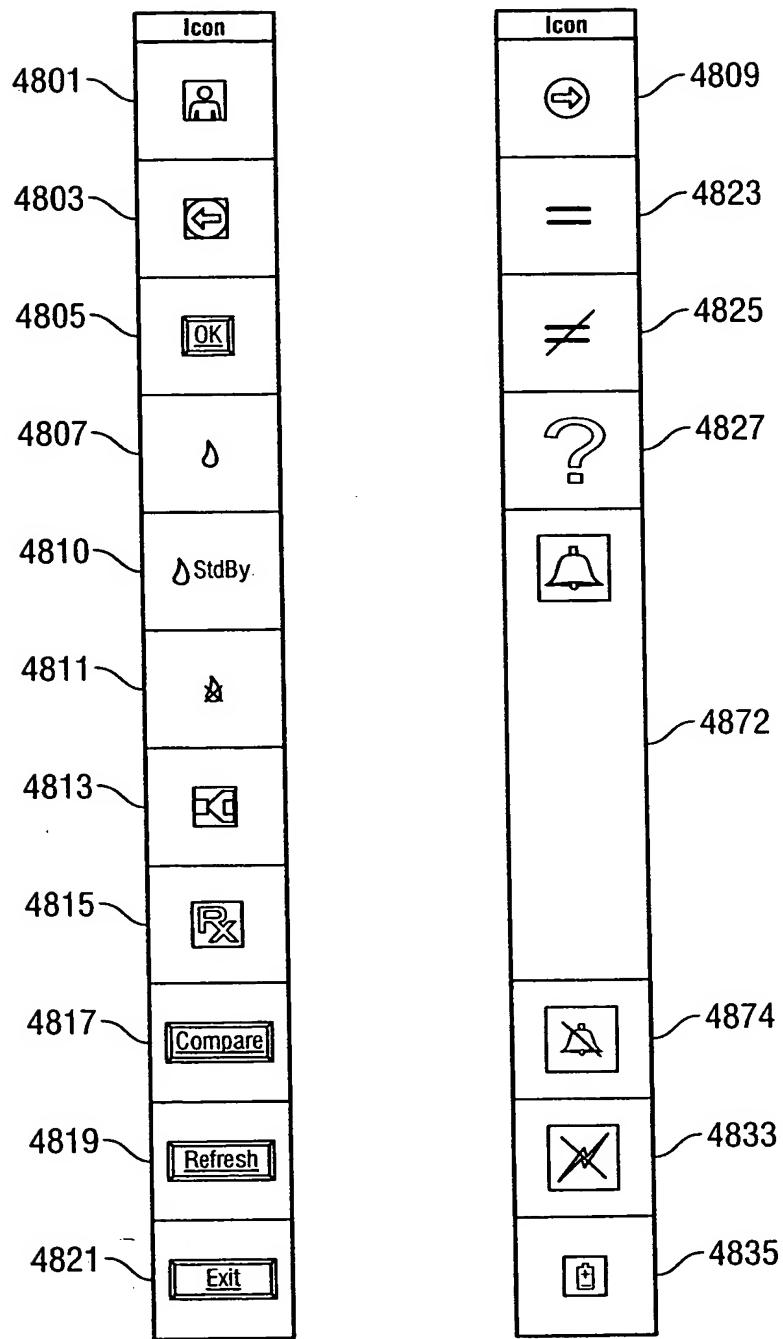


FIG. 48

4937 → 5003 → 5001

FIG. 49

Nurse A, RN
 Patient, One - 101-B
 Mini-Chart : Allergies (NKA)
 Record Admin Result
 Please select Admin Result:

MORPHINE SULFATE
 Continuous Infusion
 60 MG = 30 ML
 Route: Injection
 Flow Rate: 30 ML/H
 Estimated Admin. Period: 1 Hour

FIG. 50A

Ninety - Three, James RN
 Ninety-Six, Samuel, Mr. MDRoom1-
 MDBed1

Mini-Chart : Allergies (NKA)

Monitoring Parameters
 Blood Pressure mm/Hg
 Supine

Save Back

FIG. 50

Time	Med	Last
14:39	Digoxin Tab 0.125 NR TAB Oral 0.05g	MP

FIG. 50A

FIG. 50

5101 →

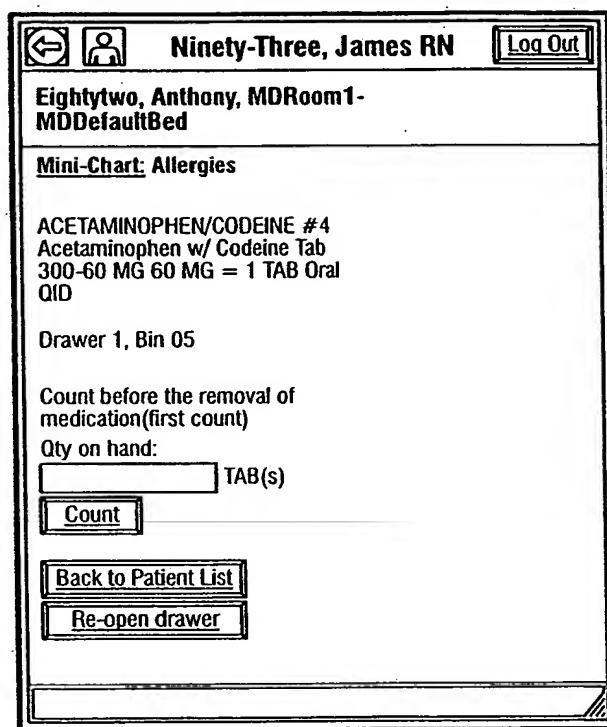
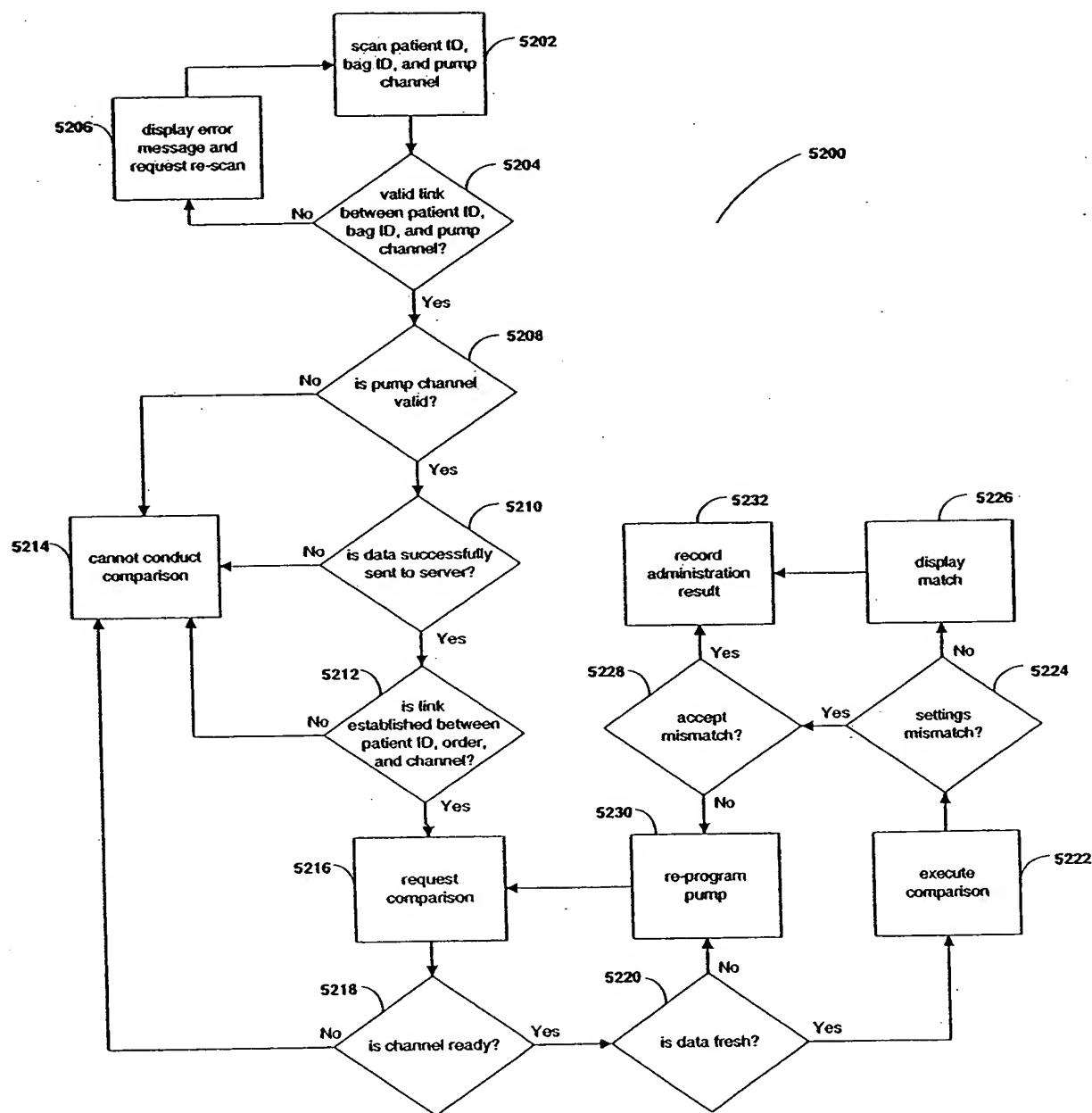


FIG. 51

FIG. 52



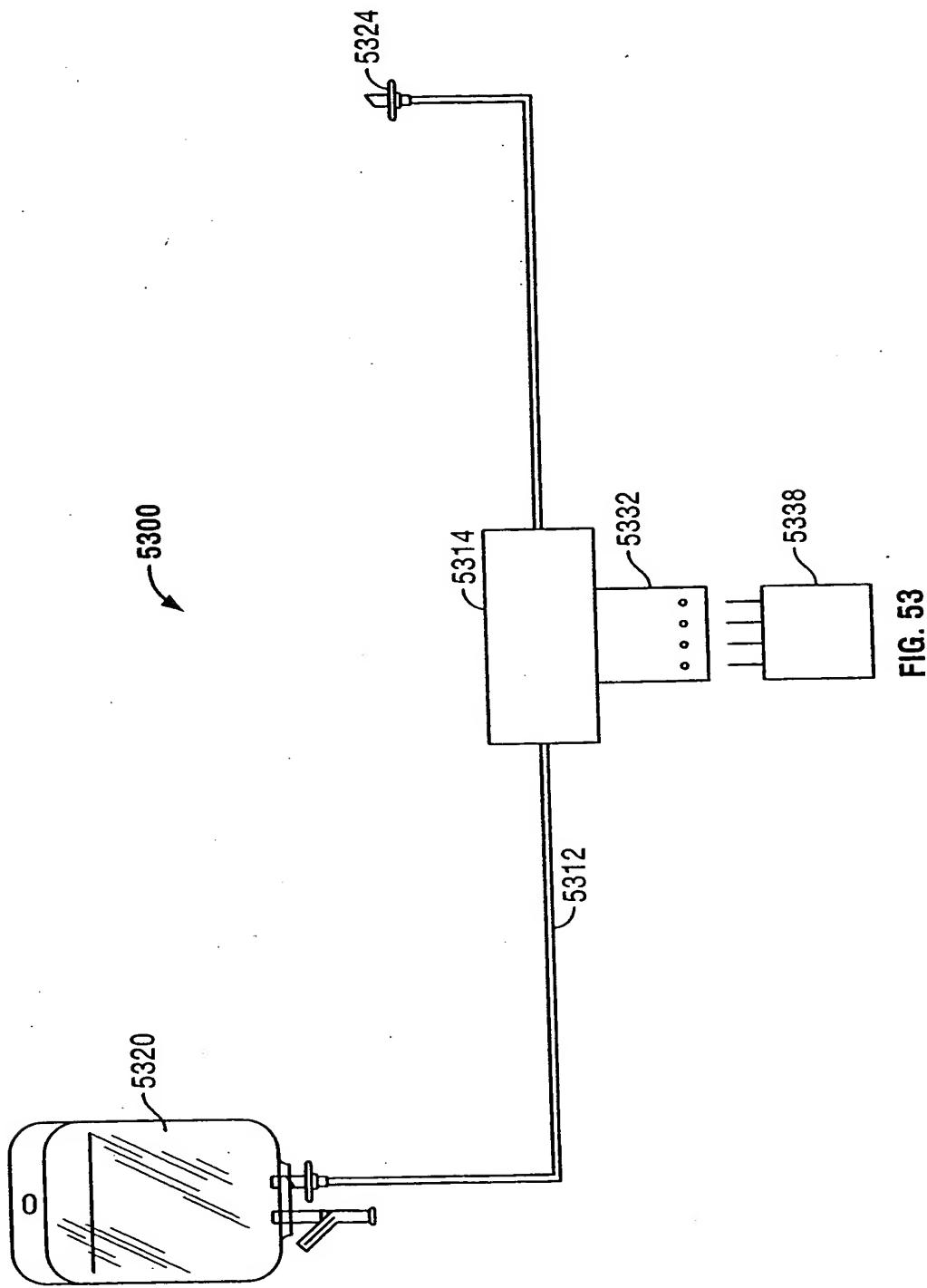


FIG. 53

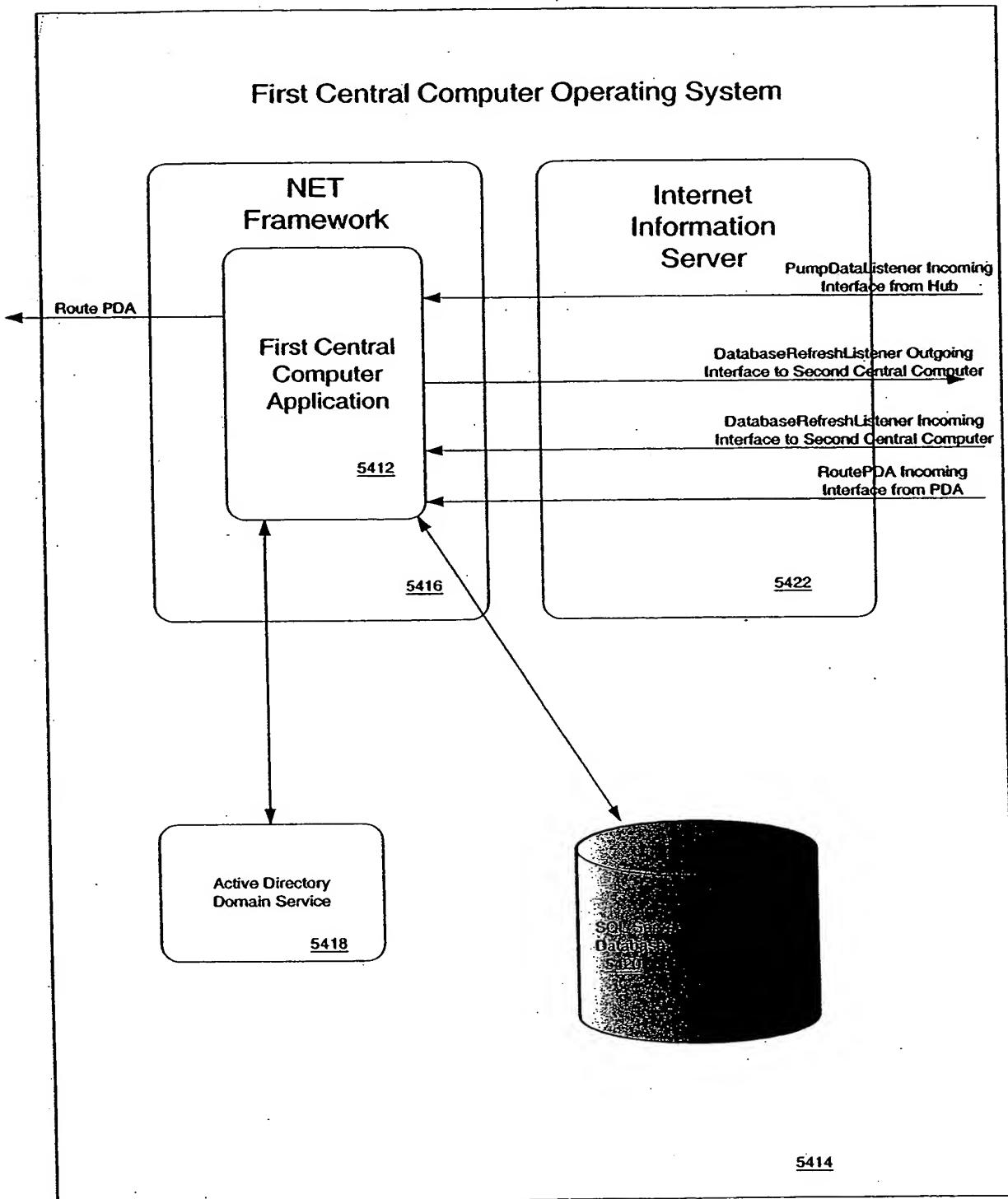


FIG. 54

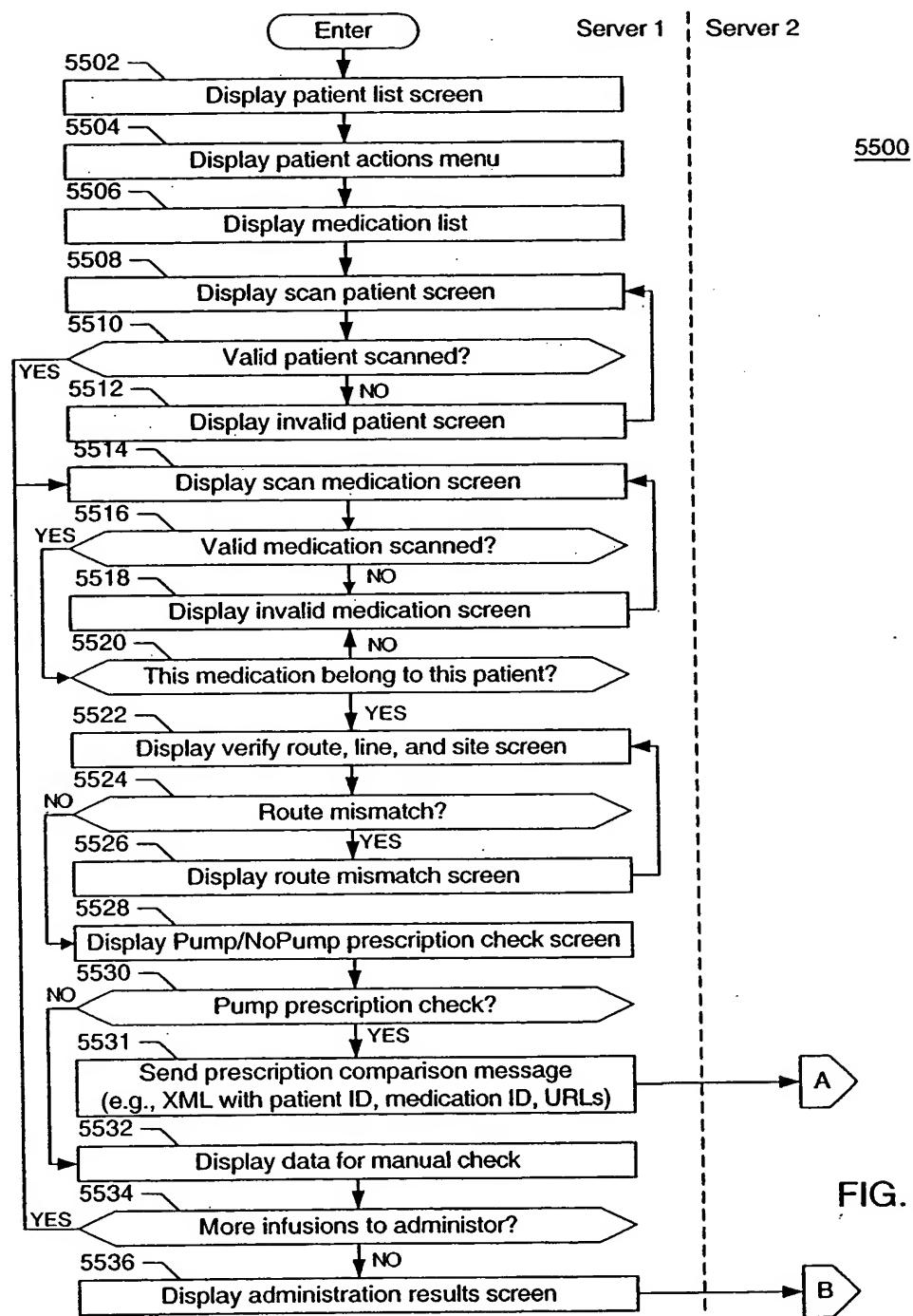


FIG. 55A

FIG. 55B

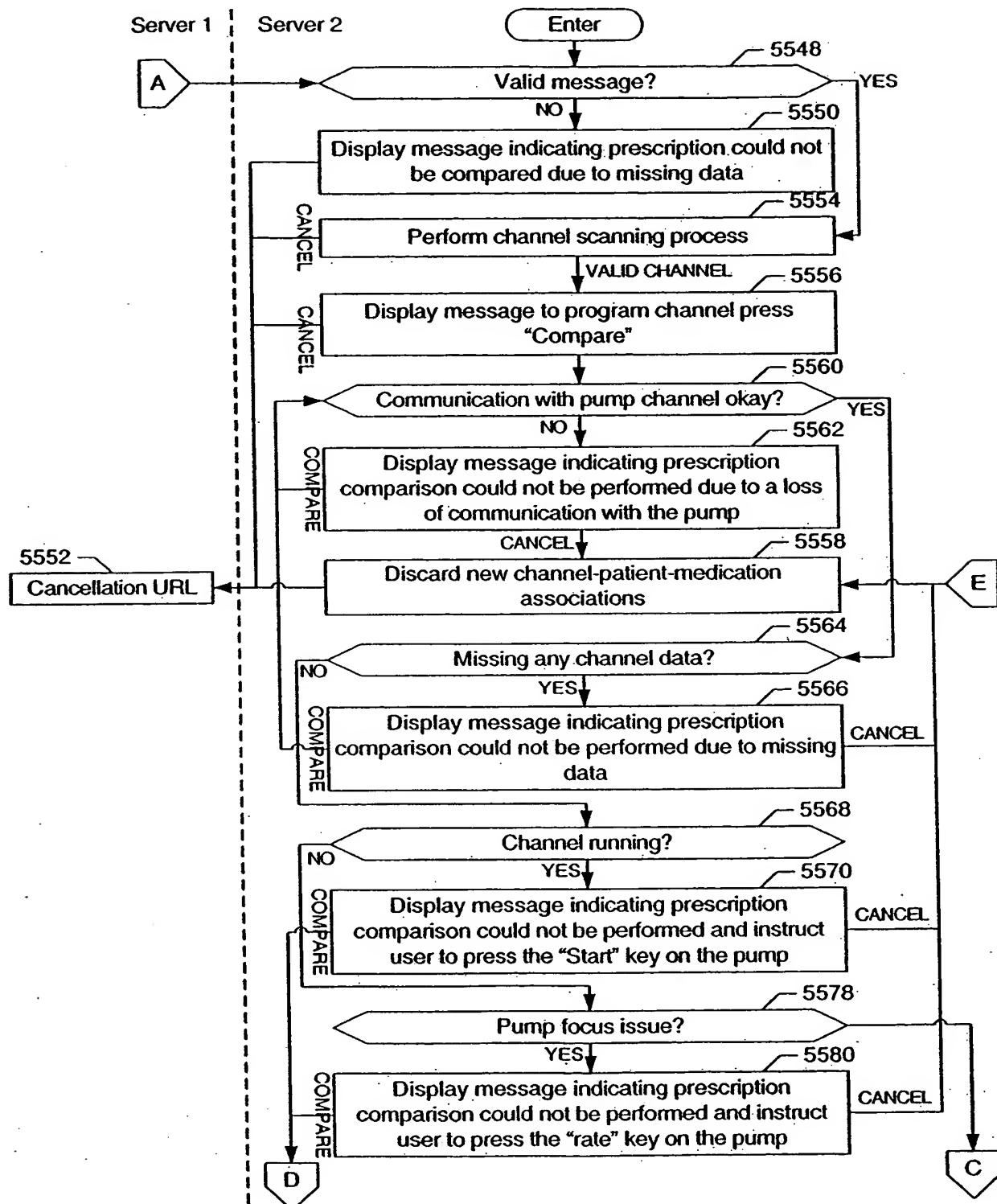
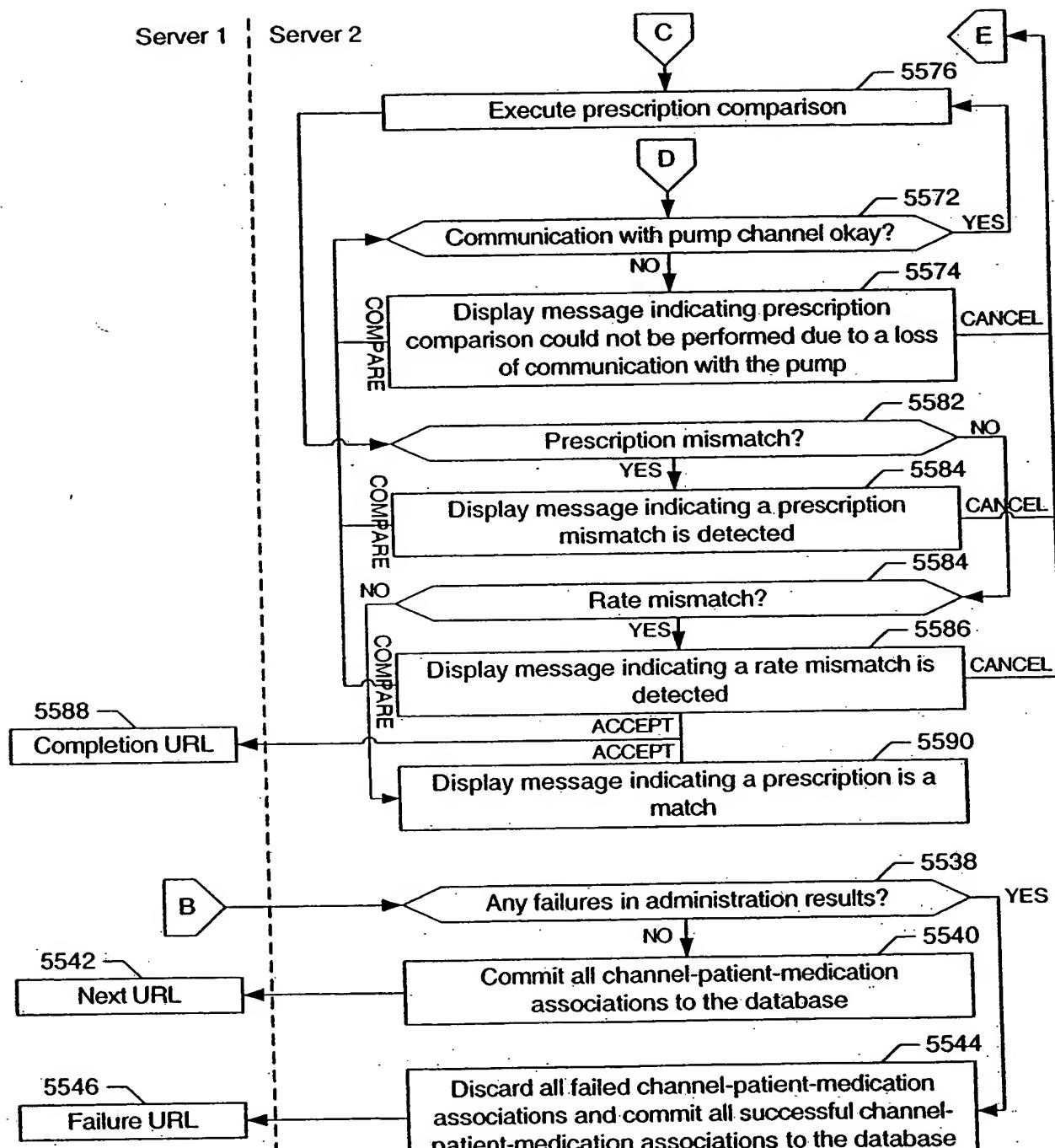


FIG. 55C



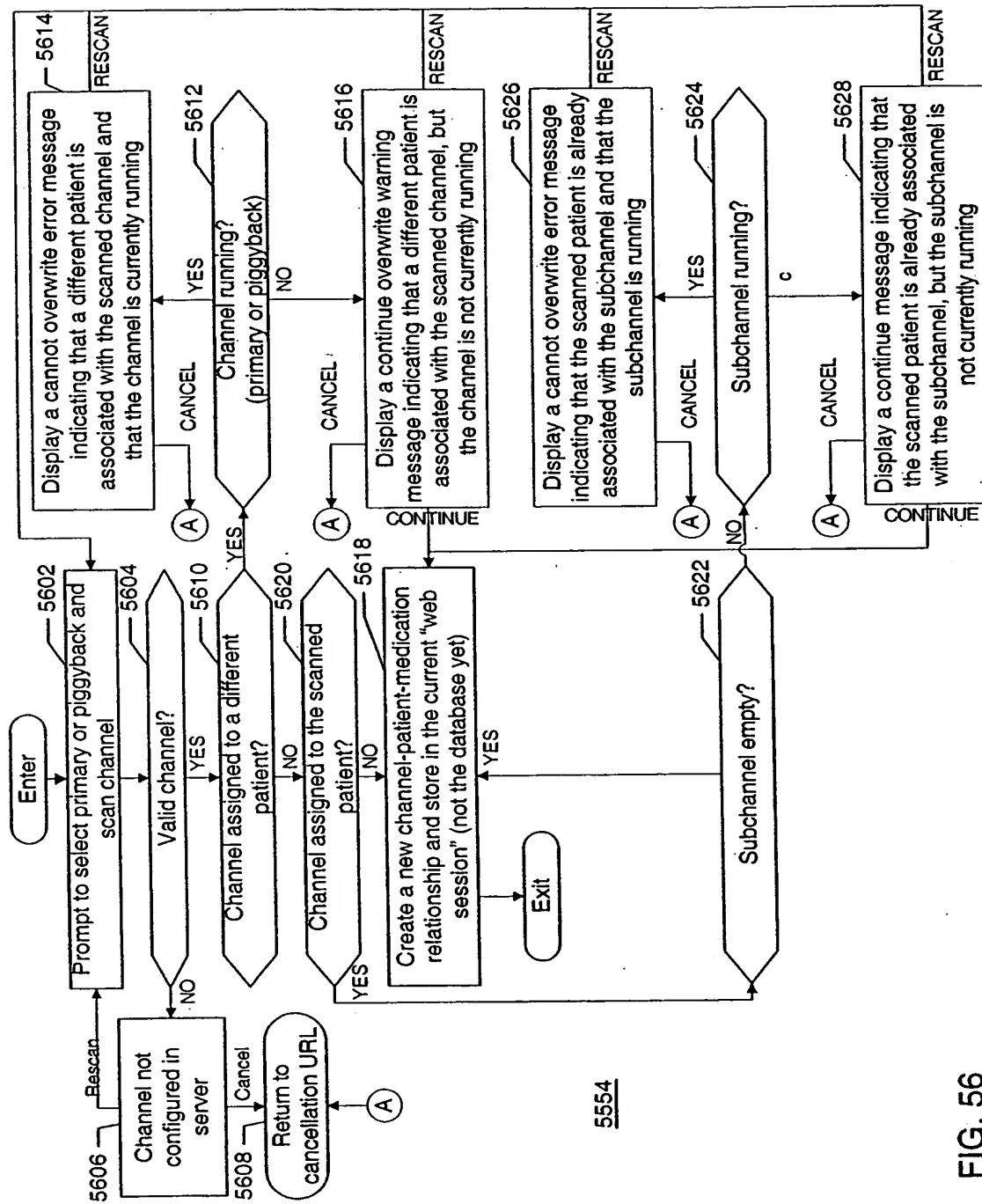


FIG. 56

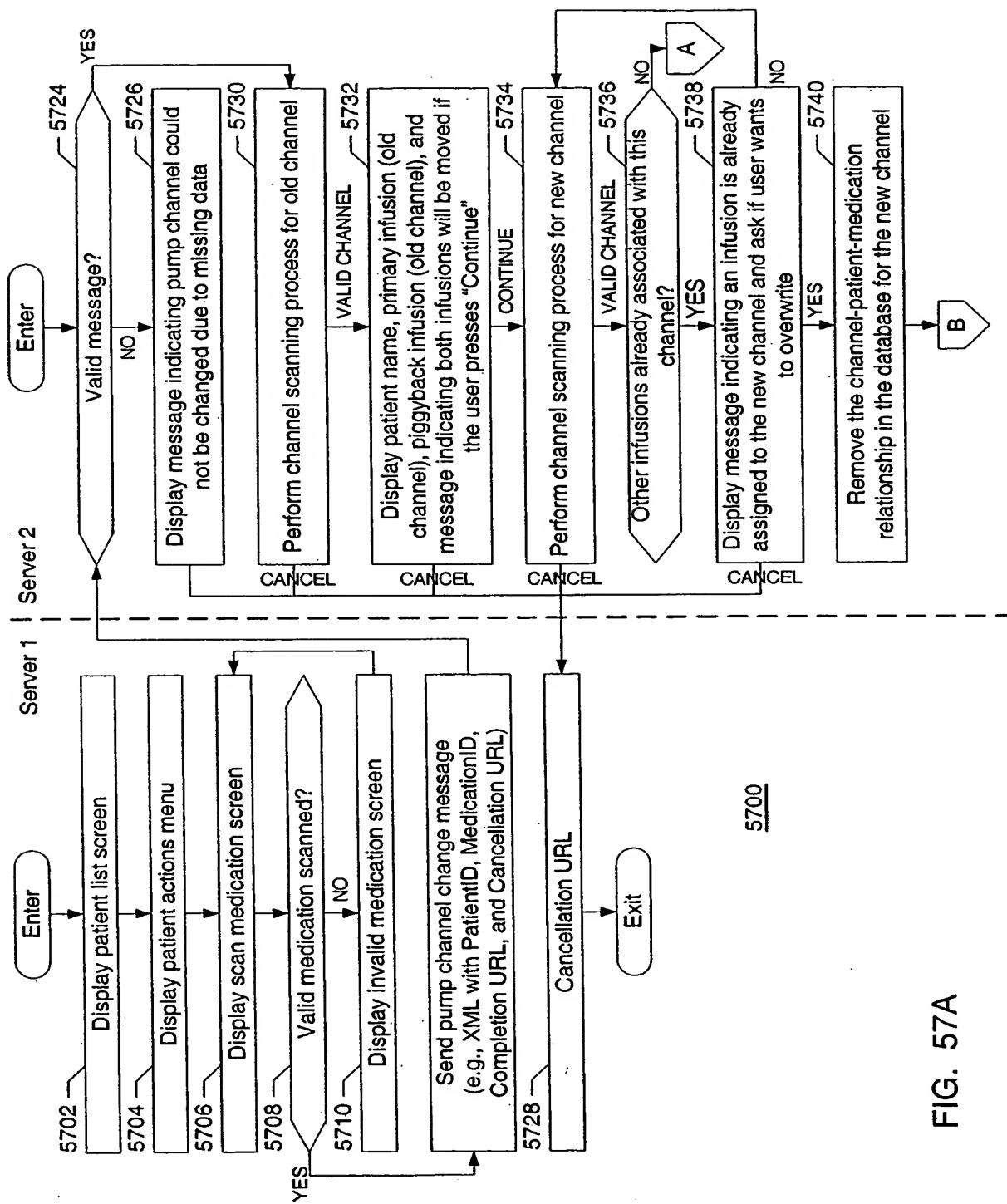


FIG. 57A

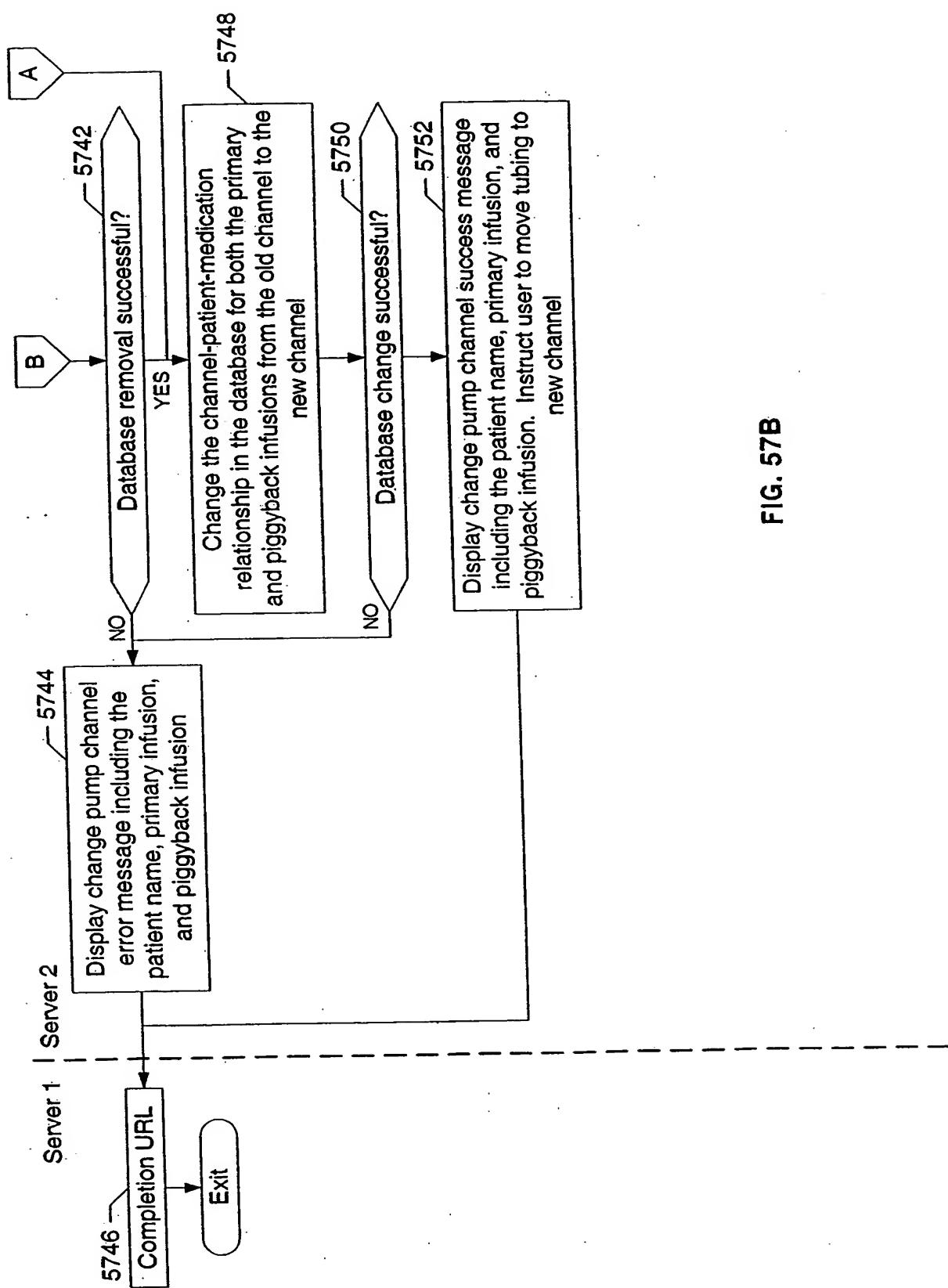


FIG. 57B

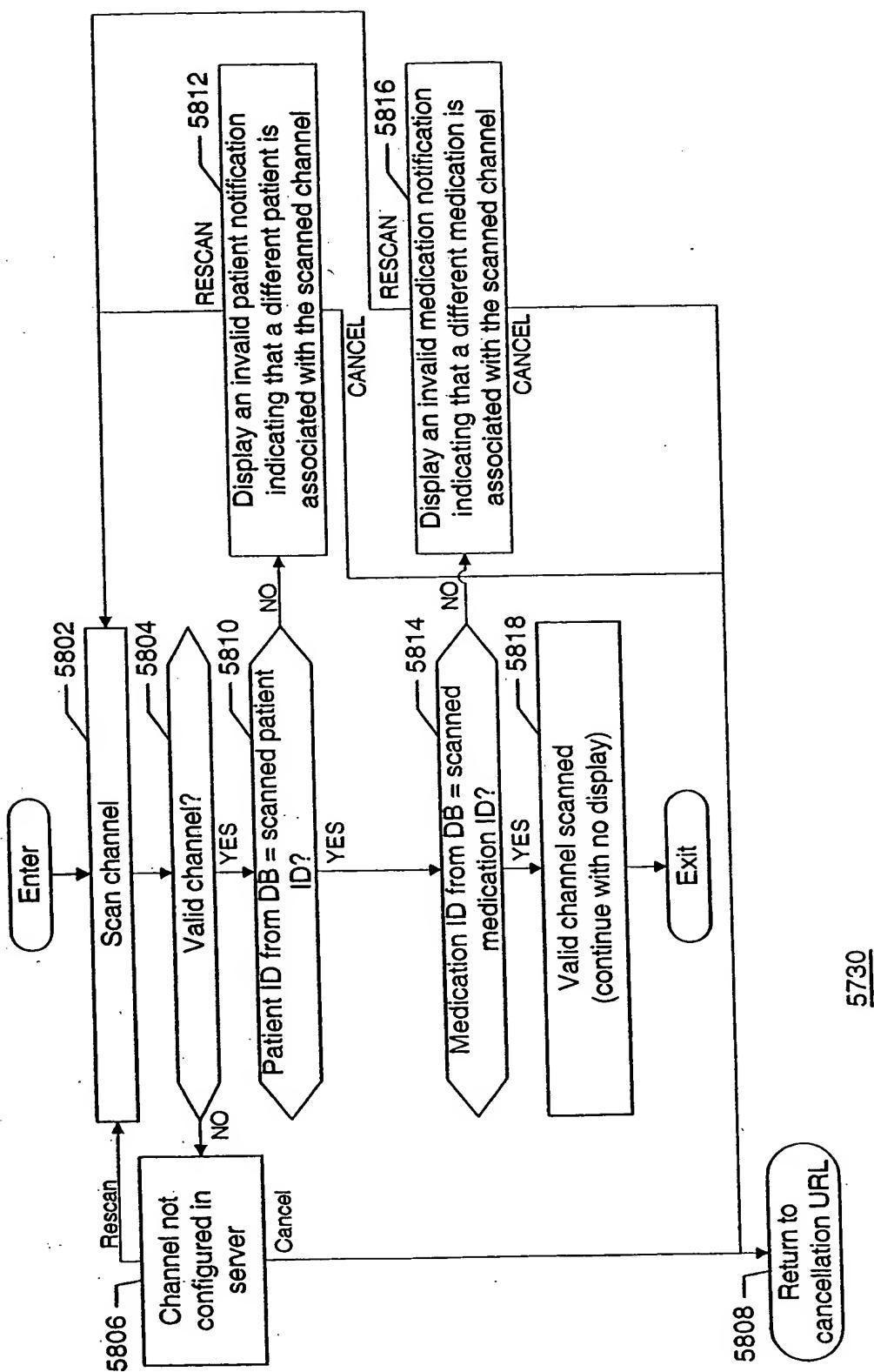


FIG. 58

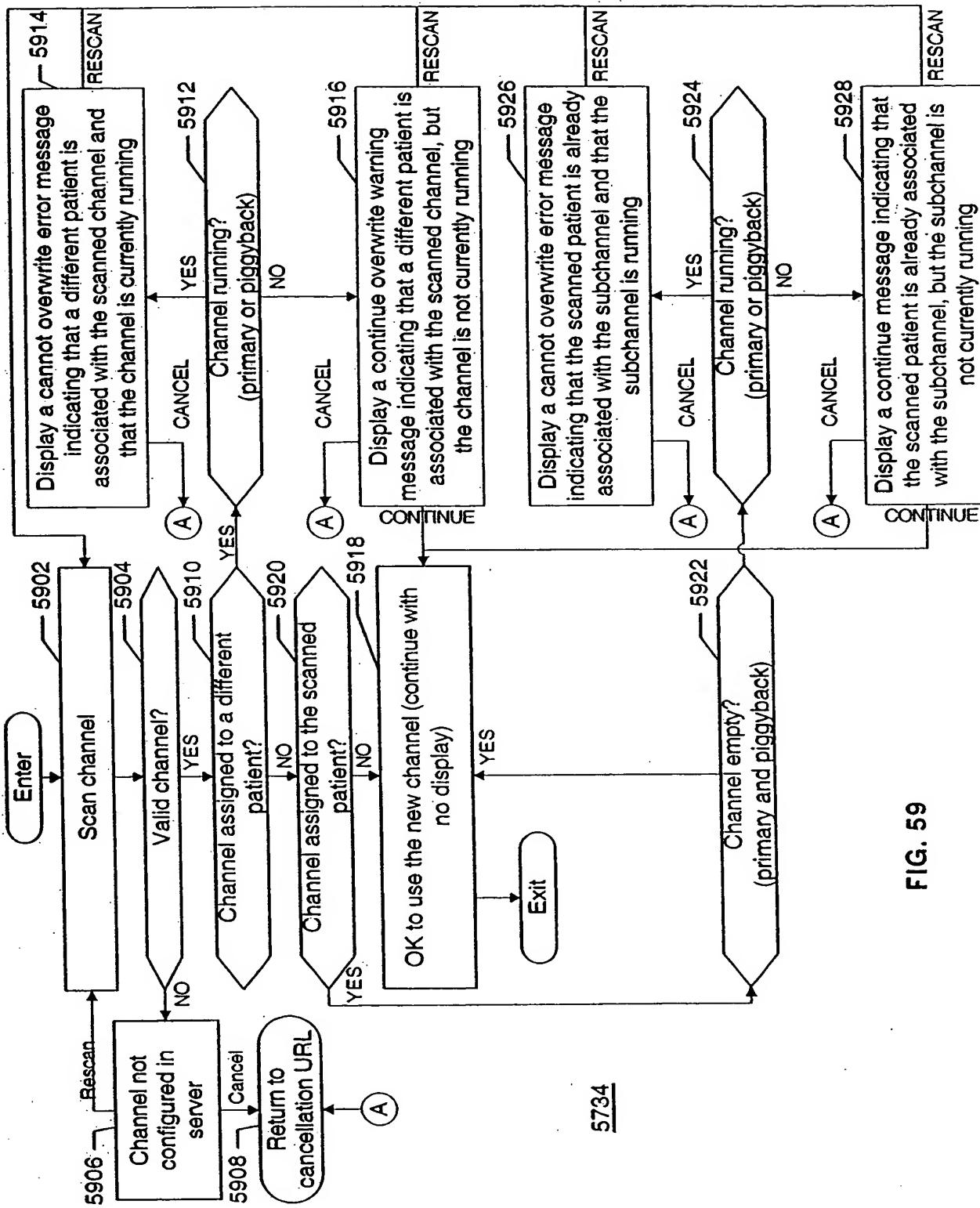


FIG. 59

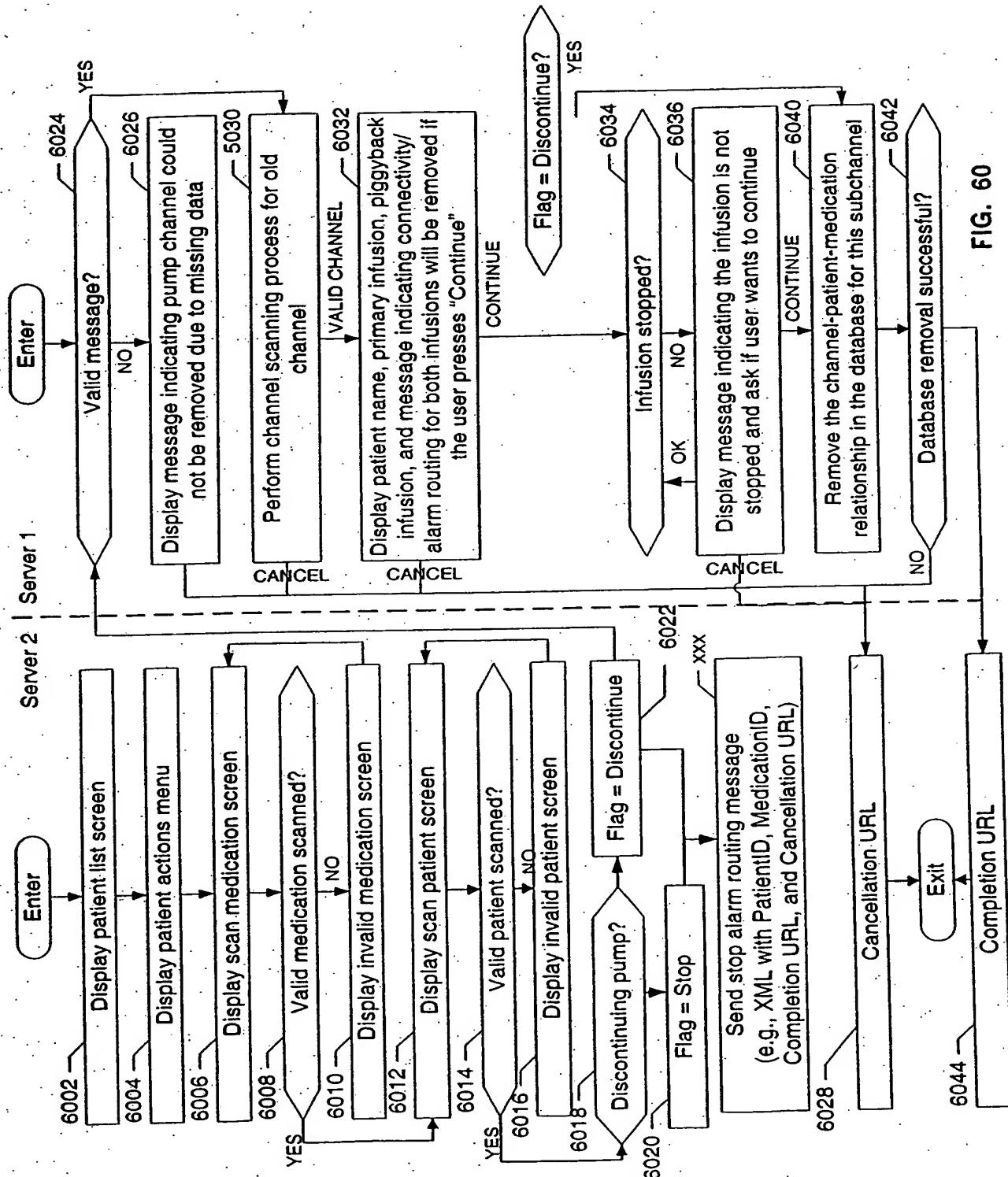


FIG. 60

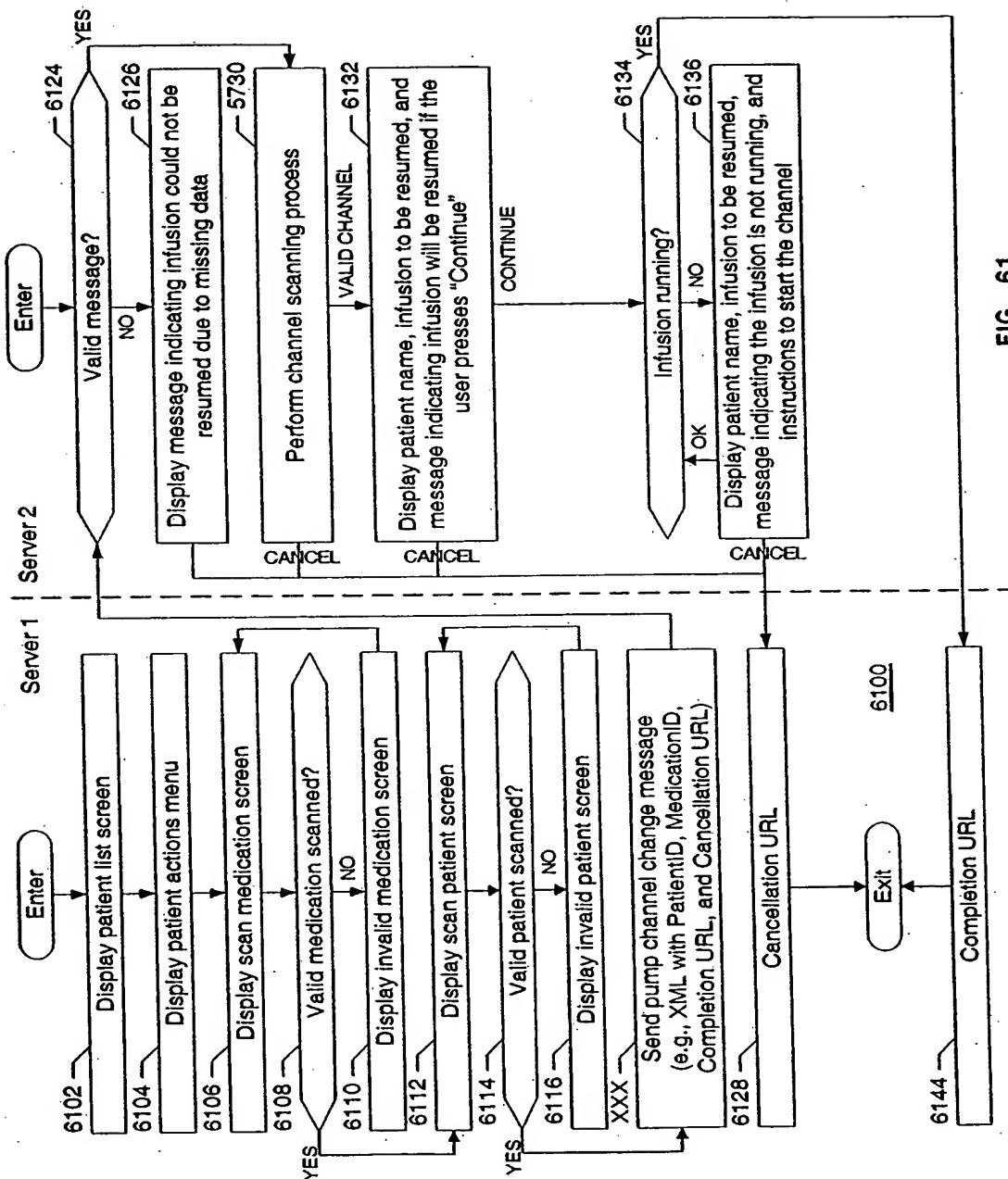


FIG. 61

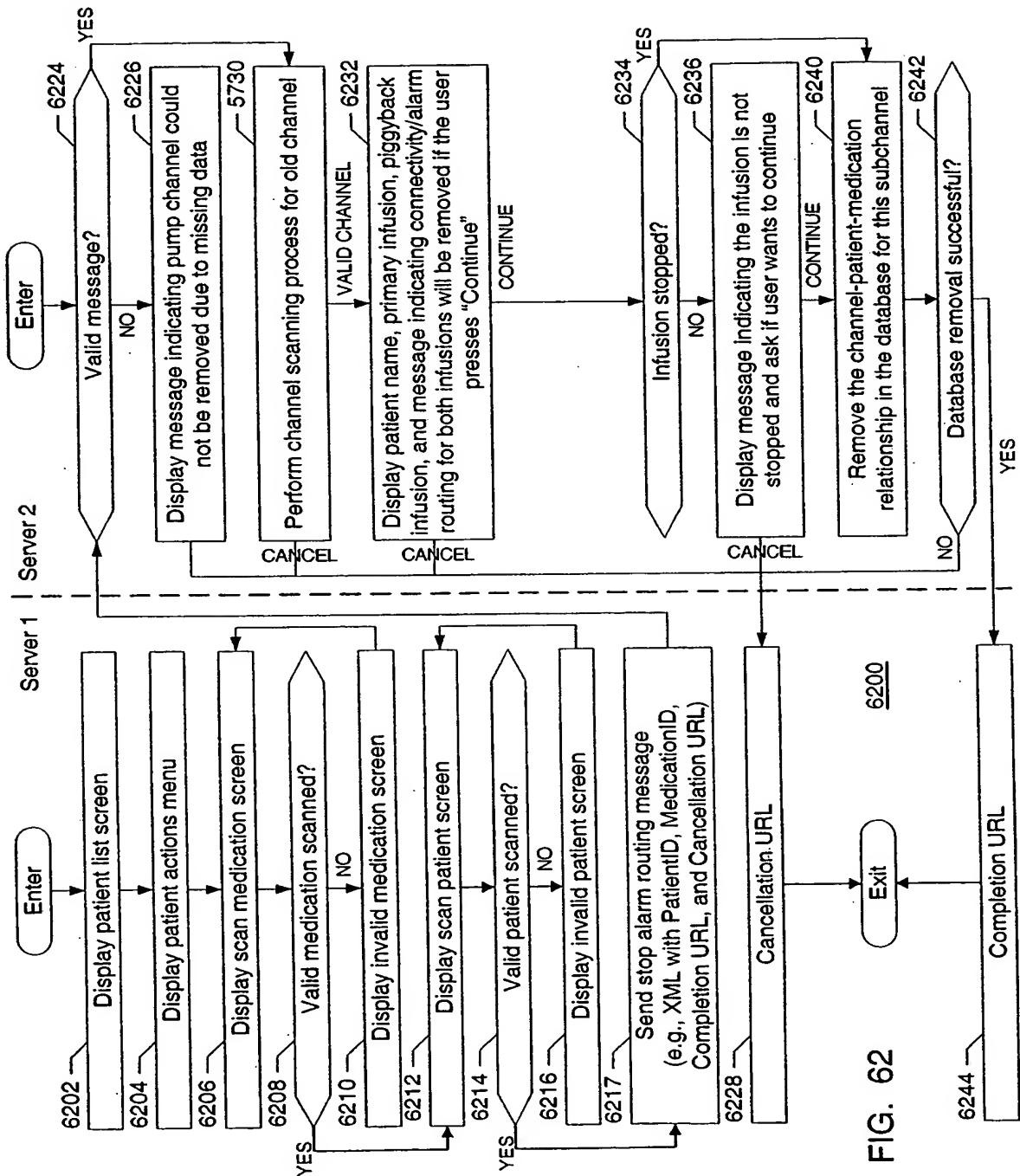
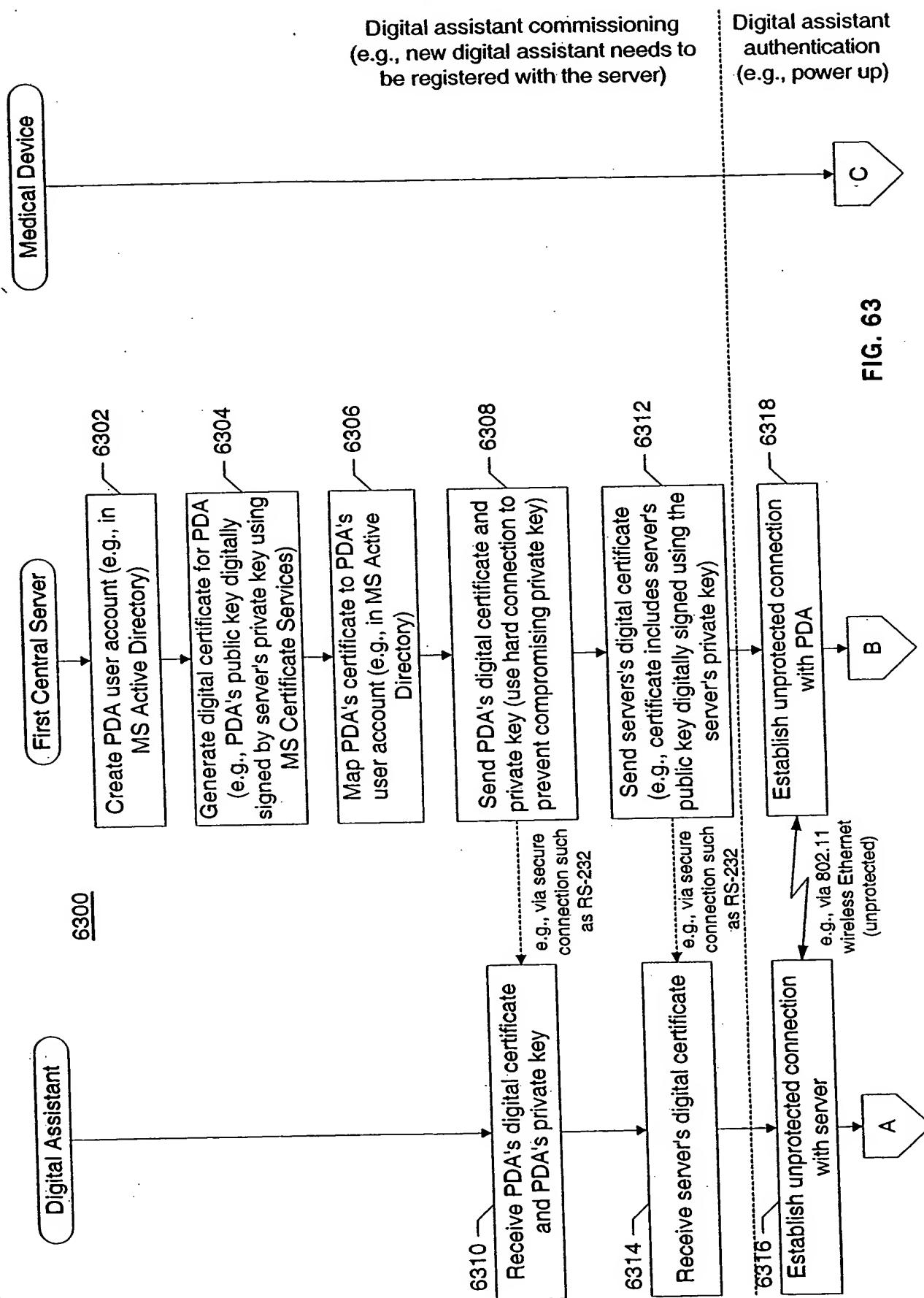
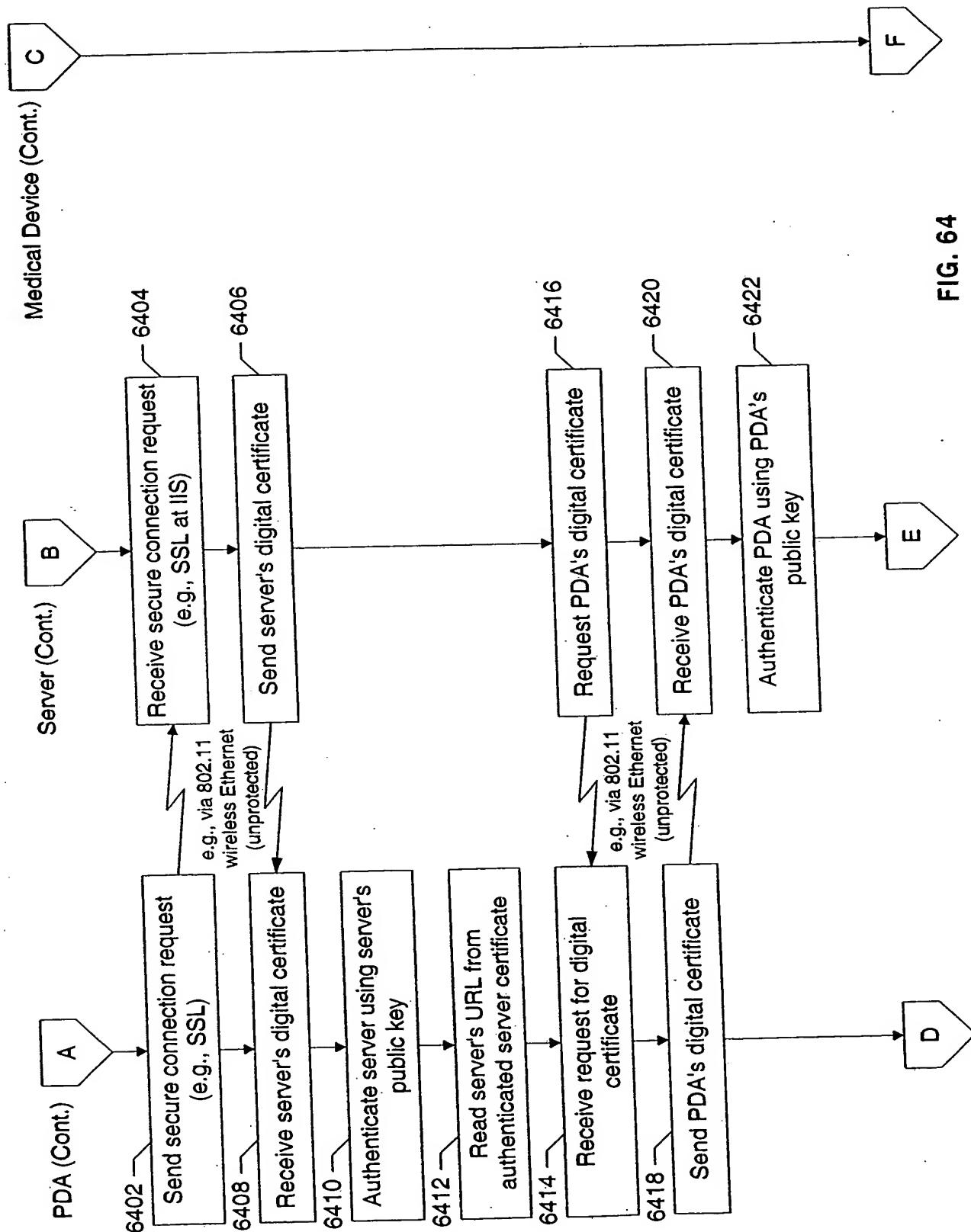


FIG. 62



**Digital assistant
 authentication
 (e.g., power up)**



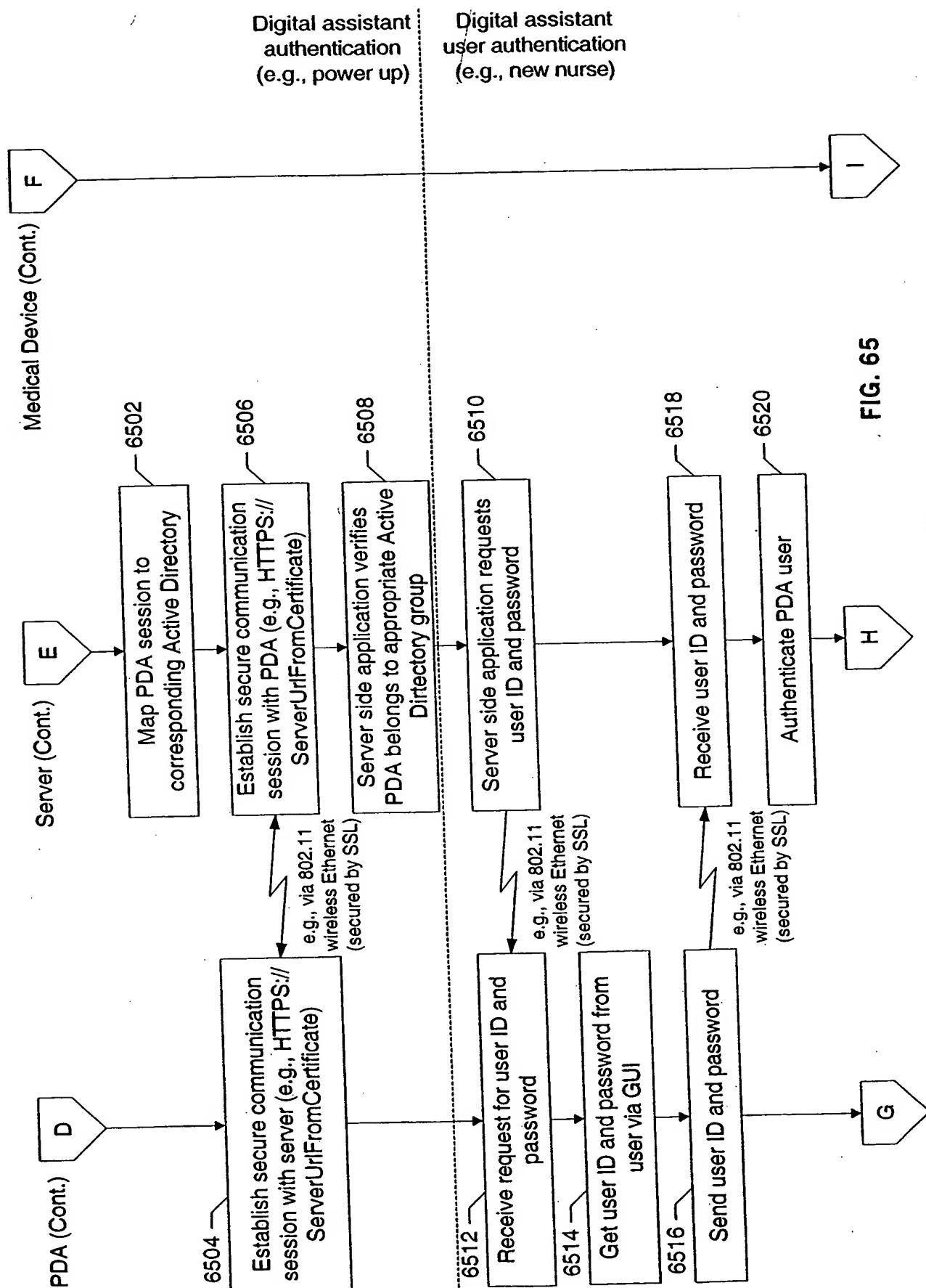


FIG. 65

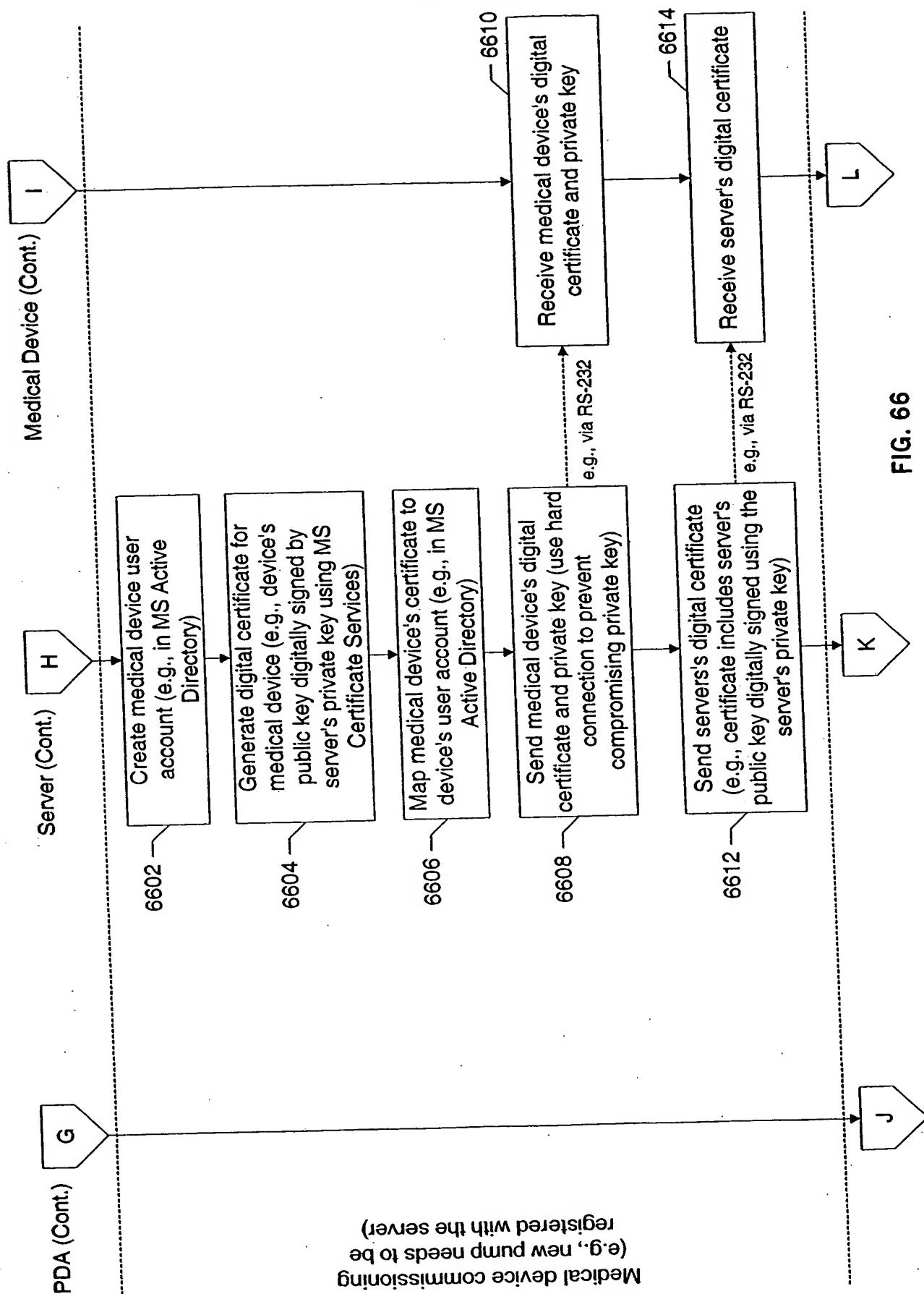


FIG. 66

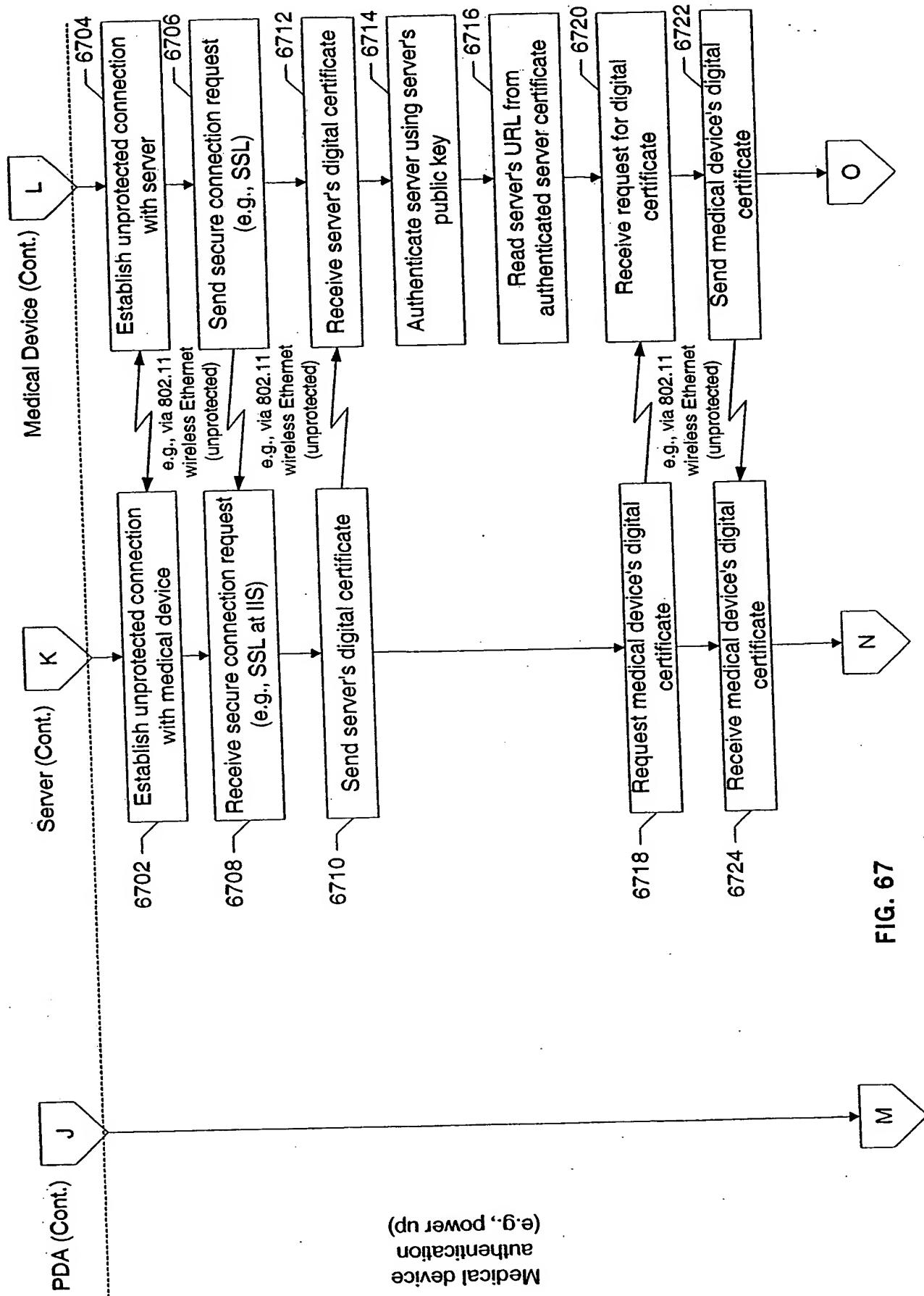
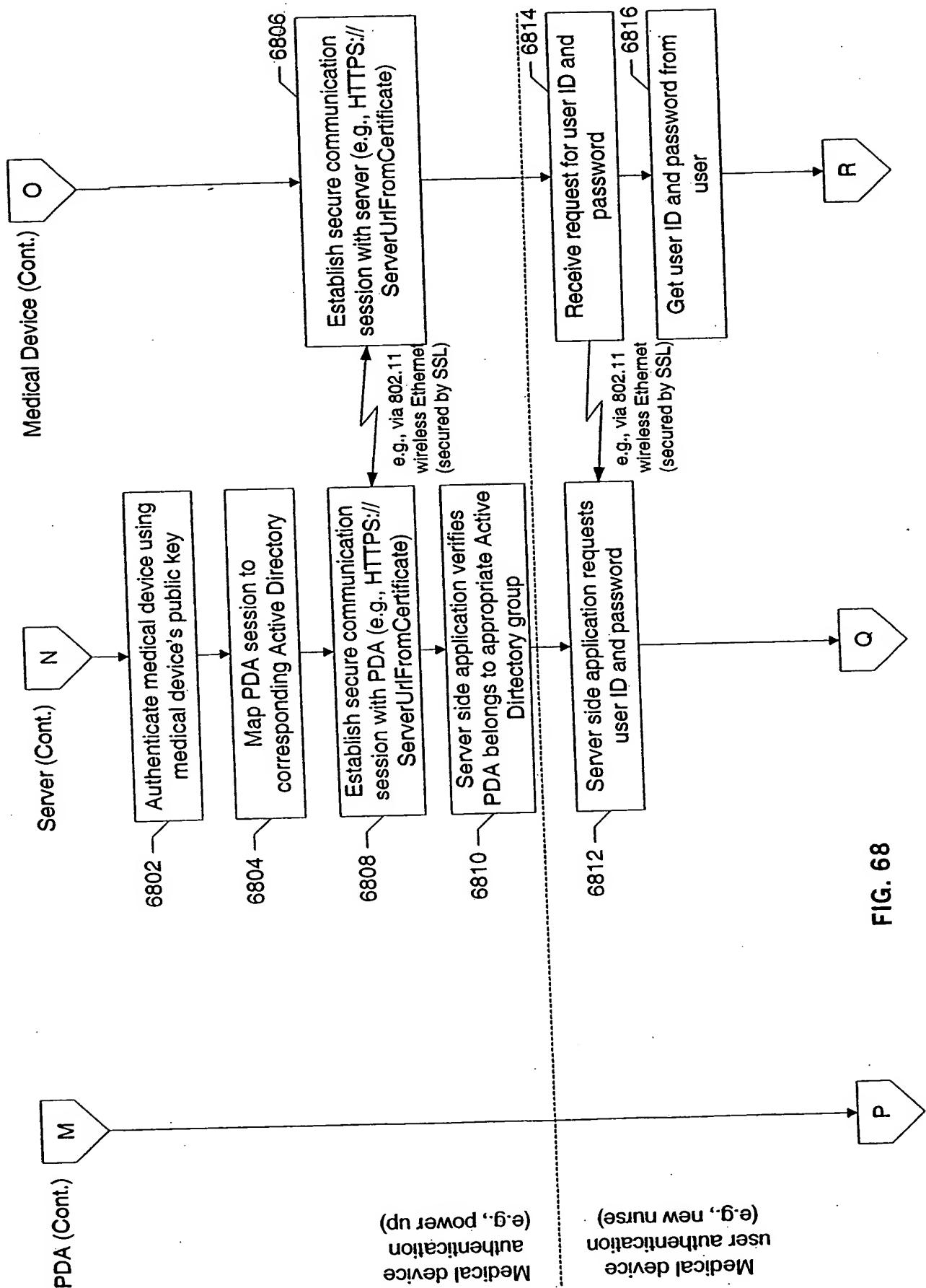


FIG. 67



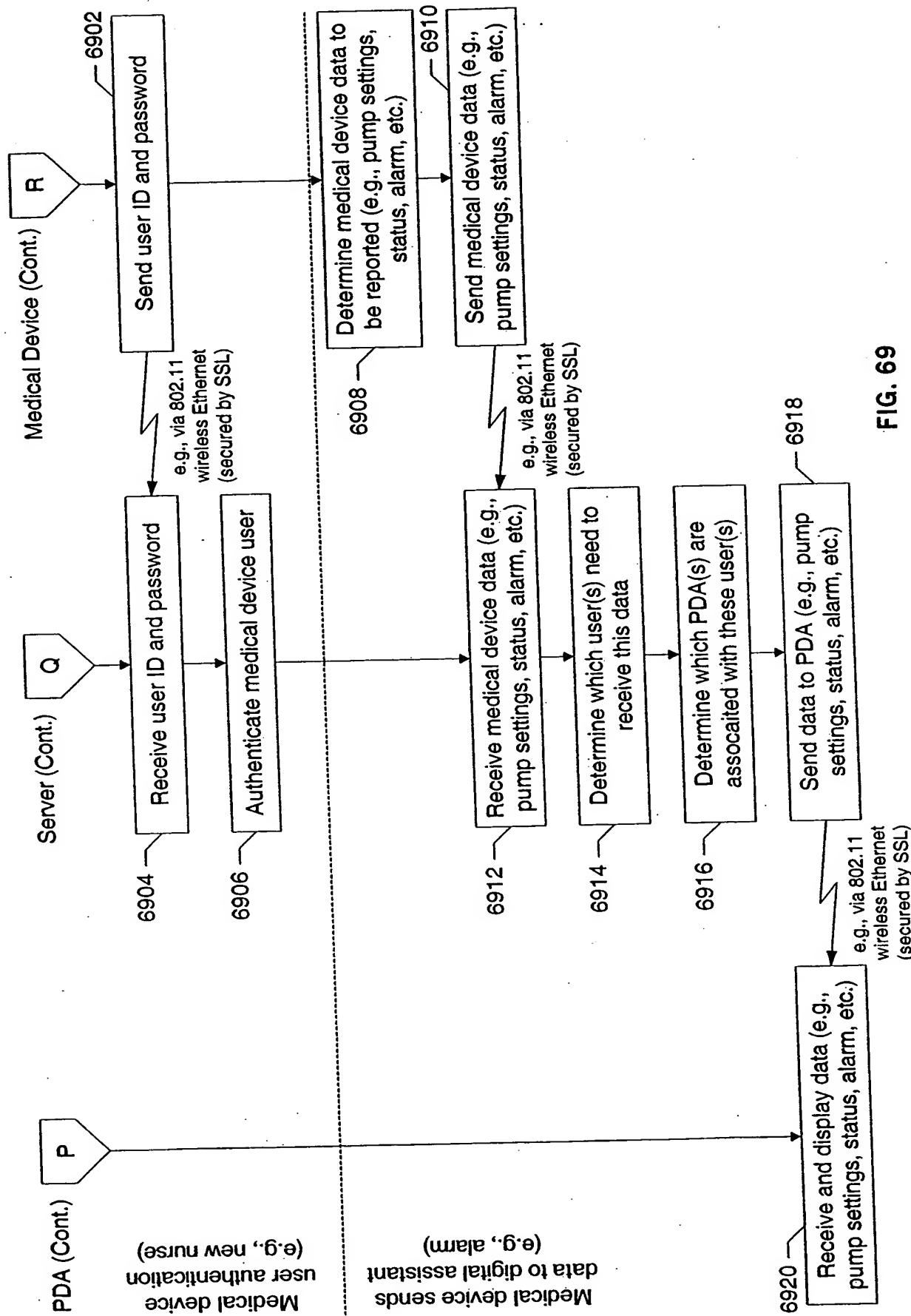


FIG. 69